



FINAL REPORT  
SEPTEMBER 1994

REPORT NO. 93-14

SOMALIA ENVIRONMENTAL  
MONITORING OF AMMUNITION  
IN OPEN STORAGE,  
FALL 1993

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SAVANNA, ILLINOIS 61074-9639

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REPORT NO. 93-14

SOMALIA ENVIRONMENTAL MONITORING OF  
AMMUNITION IN OPEN STORAGE, FALL 1993

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## PART 1

### INTRODUCTION

A. BACKGROUND. The U.S. Army Defense Ammunition Center and School (USADACS), Validation Engineering Division (SMCAC-DEV), was tasked by U.S. Army Armament Research, Development and Engineering Center (ARDEC) to monitor ammunition in open storage in Somalia. This was an ongoing test of ARDEC, Predictive Technology Branch, surveillance program to ensure long-term reliability of ammunition in the field. This report contains test results of selected ammunition monitored from November 1993.

B. AUTHORITY. This test was conducted IAW mission responsibilities delegated by the U.S. Army Armament, Munitions and Chemical Command (AMCCOM), Rock Island, IL.

C. OBJECTIVE. The objective of this test was to determine the temperatures ammunition experienced while in open storage in Mogadishu, Somalia during November 1993. This test data will assist ARDEC in determining any adverse effects this exposure had on ammunition stockpile reliability.

D. CONCLUSION. Mogadishu, Somalia provides an environment in which high humidity exists daily, creating a corrosive environment. Ten data loggers were initially installed on the ammunition items at this location. Of the 10 data loggers, 7 were no longer in operation when collected for downloading due to this corrosive environment generated by the coast. The following results were compiled from the three remaining operable data loggers. The minimum peak humidity was 86.8 percent. The 120mm tank ammunition container experienced a peak external temperature of 135.1 degrees Fahrenheit and a peak internal temperature of 131.7 degrees Fahrenheit. For both peak external and peak internal temperatures, the 120mm tank ammunition container experienced higher temperatures than the TOW 2 missile. This was

probably due to the wooden box the TOW 2 missile was stored in which provides protection from solar radiation. Furthermore, the bottom box of the TOW 2 missile experienced lower peak temperatures than the top box, due to the shade the top box provided.

PART 2

NOVEMBER 1993

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## PART 3

### TEST PROCEDURES

Tests were conducted at the ammunition supply point (ASP) located at the airport in Mogadishu, Somalia, which is approximately several hundred yards from the coast. The salt and moisture along the coast create a corrosive environment. A total of 10 ACR data loggers were installed on 3 different types of ammunition in open storage. Each data logger contained a humidity probe, internal temperature probe, and external temperature probe. The data loggers recorded a reading for each probe every 30 minutes.

## PART 4

### TEST EQUIPMENT

Three ammunition items were tested during this program. Items tested were selected based on potential sensitivity to extreme temperature conditions. The actual site for each test item was randomly selected from available open storage pallets containing each specific ammunition item. Table 1 contains a list of the ammunition and locations of the data loggers that were still functioning at the time of downloading. The data logger locations show where each data logger was positioned on the specified palletized ammunition. For more details on data logger locations, see Part 6.

#### SOMALIA

#### TEST ITEMS

TABLE 1

|                       |  |
|-----------------------|--|
| DESCRIPTION:          | GUIDED MISSILE SURFACE ATTACK<br>BGM-71-1B (TOW 2) |
| DODIC:                | PV01   |
| LOT NO.:              | HAQ-3160-4A  |
| NSN:                  | 1410-01-301-0815-PV01                              |
| DATA LOGGER NO.:      | 25   |
| DATA LOGGER LOCATION: | TOP OF TOP BOX                                     |

SOMALIA  
TEST ITEMS

TABLE 1

|                       |  |
|-----------------------|--|
| DESCRIPTION:          | GUIDED MISSILE SURFACE ATTACK<br>BGM-71-1B (TOW 2) |
| DODIC:                | PV01   |
| LOT NO.:              | HAQ-3160-4A  |
| NSN:                  | 1410-01-301-0815-PV01                              |
| DATA LOGGER NO.:      | K35  |
| DATA LOGGER LOCATION: | BETWEEN BOXES                                      |

|                       |                                |
|-----------------------|--------------------------------|
| DESCRIPTION:          | CARTRIDGE 120MM HEAT-MP-T M830 |
| DODIC:                | C787                           |
| LOT NO.:              | MHM90C022Y005                  |
| NSN:                  | 1315-01-232-4638-C787          |
| DATA LOGGER NO.:      | 81                             |
| DATA LOGGER LOCATION: | TOP OF PALLET                  |

## PART 5

### TEST RESULTS

Due to the corrosive environment generated by the coastal location of the ASP on the Mogadishu, Somalia airport, 7 of the 10 data loggers were no longer in operation when collected and downloaded. Because only three data loggers were operating, the data received is limited, including no data from the 84mm cartridge and launcher.

#### PEAK EXTERNAL AMMUNITION TEMPERATURE

The highest peak external temperature recorded was on the 120mm tank ammunition cartridges at 135.1 degrees Fahrenheit on Julian Date 326 (22 November 1993). Additionally, the daily peak temperature for 120mm tank ammunition was higher than the daily peak temperature for the TOW 2 missile. This is due to the exposed metal surface of the 120mm tank ammunition absorbing more solar radiation than the wooden surface of the TOW 2 missile wooden container. As expected, the probe at the top of the TOW 2 missile box recorded higher temperatures than the probe between the boxes. The top of the top box was exposed to direct sunlight, while the top of the bottom box was shaded most of the day, thus, avoiding the radiation energy of the sun (see Table 2, page 5-2, for additional details on peak exterior ammunition temperatures).

SOMALIA PEAK  
TEMPERATURE READINGS  
(EXTERIOR)

TABLE 2

| Julian<br><u>Date</u> | Temperature (F.)<br>TOW 2 Missile<br><u>Top of Top Box</u> | Temperature (F.)<br>TOW 2 Missile<br><u>Between Boxes</u> | Temperature (F.)<br>120mm Tank Ammunition<br><u>Top of Pallet</u> |
|-----------------------|--|---|---|
| 319                   | 117.9  | 105.3   | 117.9   |
| 320                   | 117.9  | 104.9   | 118.8   |
| 321                   | 119.7  | 106.1   | 117.9   |
| 322                   | 117.9  | 100.7   | 117.0   |
| 323                   | 119.7  | 106.9   | 117.9   |
| 324                   | 118.8  | 89.2  | 119.7   |
| 325                   | 117.9  | 99.2  | 117.0   |
| 326                   | 117.0  | 97.0  | 135.1   |
| 327                   | 106.9  | 92.0  | 122.5   |
| 328                   | 102.2  | 92.7  | 118.8   |
| 329                   | 102.2  | 81.2  | 118.8   |
| 330                   | 101.4  | 79.9  | 86.5  |
| 331                   | 109.3  | 97.7  | 122.5   |
| 332                   | 97.7   | 97.7  | 116.1   |
| 333                   | 92.0   | 92.0  | 113.5   |



## PEAK INTERNAL AMMUNITION TEMPERATURES

The maximum internal temperature for the 120mm tank ammunition was 131.7 degrees Fahrenheit on Julian Date 326 (22 November 1993). The daily internal peak temperatures for 120mm tank ammunition are higher than the daily internal peak temperatures for the TOW 2 missile, as was the case for the external probes. Once again, the top of the top box reached a higher temperature than the bottom box for the TOW 2 missile (see Table 3, pages 5-3 and 5-4).

### SOMALIA PEAK TEMPERATURE READINGS (INTERIOR)

TABLE 3

| Julian<br>Date | Temperature (F.)<br>TOW 2 Missile<br><u>Top of Top Box</u> | Temperature (F.)<br>TOW 2 Missile<br><u>Between Boxes</u> | Temperature (F.)<br>120mm Tank Ammunition<br><u>Top of Pallet</u> |
|----------------|--|---|---|
| 319            | 104.5  | 92.7  | 118.8   |
| 320            | 108.5  | 94.8  | 124.5   |
| 321            | 106.9  | 95.5  | 123.5   |
| 322            | 108.5  | 95.5  | 123.5   |
| 323            | 110.9  | 94.8  | 124.5   |
| 324            | 103.7  | 86.5  | 117.0   |
| 325            | 112.6  | 92.0  | 112.6   |
| 326            | 101.4  | 91.3  | 131.7   |
| 327            | 97.0   | 88.6  | 117.0   |
| 328            | 92.0   | 89.2  | 111.8   |
| 329            | 92.7   | 83.2  | 112.6   |

| Julian<br>Date | Temperature (F.)<br>TOW 2 Missile<br><u>Top of Top Box</u> | Temperature (F.)<br>TOW 2 Missile<br><u>Between Boxes</u> | Temperature (F.)<br>120mm Tank Ammunition<br><u>Top of Pallet</u> |
|----------------|--|---|---|
| 330            | 81.9   | 78.6  | 85.2  |
| 331            | 98.4   | 91.3  | 118.8   |
| 332            | 92.0   | 87.2  | 108.5   |
| 333            | 82.5   | 86.5  | 106.5   |

#### SOMALIA DAILY MAXIMUM AND MINIMUM RELATIVE-HUMIDITY READINGS

Peak humidity readings during the test period varied from 86.8 percent to 100 percent for the three probes. The proximity of the coast contributed to the high-humidity readings. A 100 percent relative-humidity level occurred on 4 occasions, each on a different date. Each data logger recorded at least 1 of the 100 percent readings. A minimum humidity reading of 47.4 percent occurred on Julian date 319 (15 November 1993). The peak values occurred when the temperature was low, usually in the late evening or early morning, and the minimum humidity values usually occurred in the afternoon (see Table 4, page 5-5).

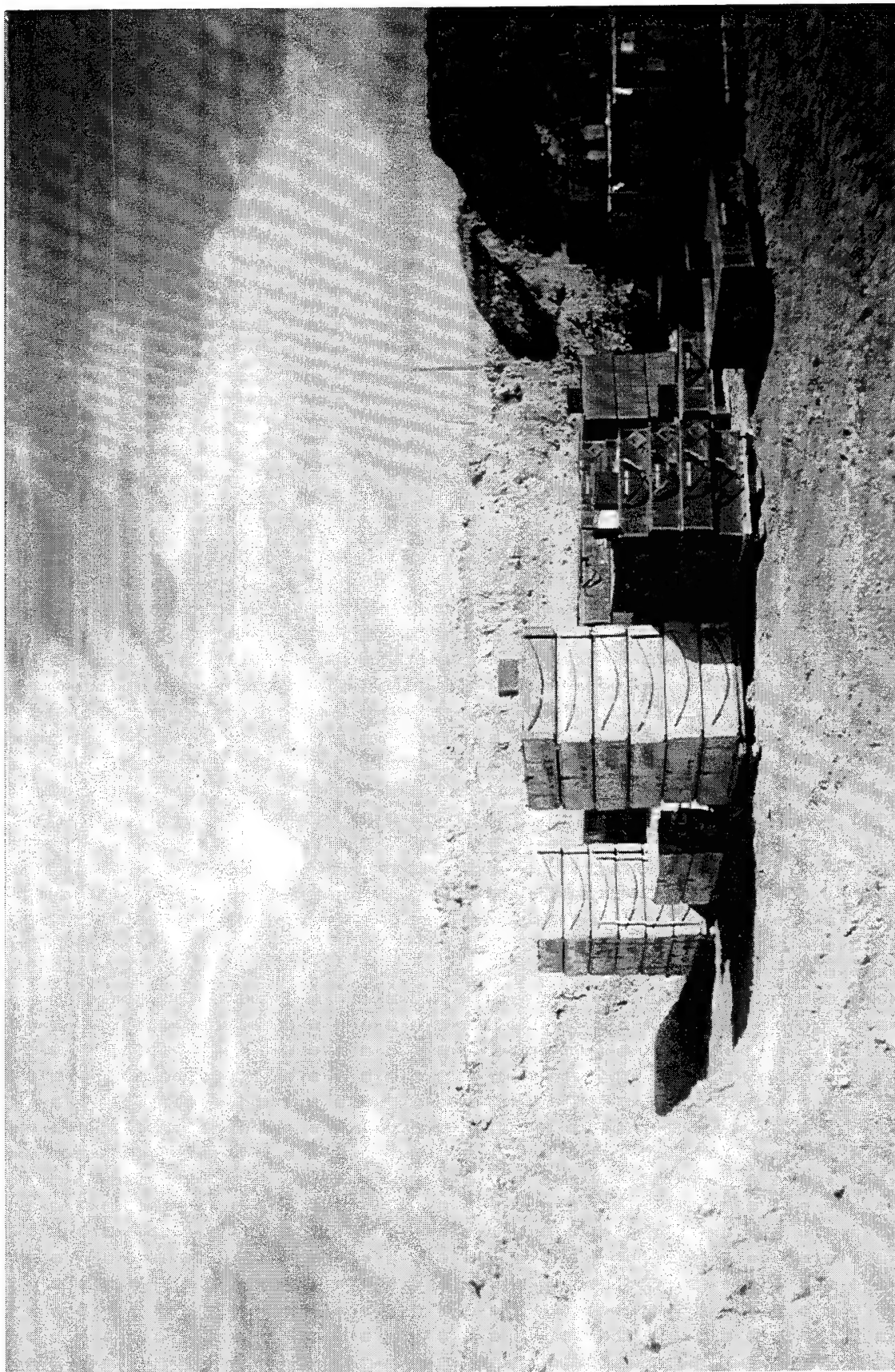
SOMALIA DAILY MAXIMUM AND MINIMUM  
RELATIVE-HUMIDITY READINGS

TABLE 4

| Julian<br>Date | Relative Humidity<br>(Percent)<br>TOW 2 Missile<br><u>Top of Top Box</u> |      | Relative Humidity<br>(Percent)<br>TOW 2 Missile<br><u>Between Boxes</u> |      | Relative Humidity<br>(Percent)<br>120mm Tank Ammunition<br><u>Top of Pallet</u> |      |
|----------------|--|------|---|------|---|------|
|                | MAX  | MIN  | MAX   | MIN  | MAX   | MIN  |
| 319            | 86.8   | 51.9 | 88.4  | 47.4 | 96.9  | 51.9 |
| 320            | 88.4   | 49.3 | 88.4  | 47.6 | 96.9  | 49.3 |
| 321            | 90.2   | 53.0 | 88.4  | 53.0 | 99.8  | 53.0 |
| 322            | 90.2   | 51.0 | 88.4  | 47.2 | 96.9  | 51.0 |
| 323            | 90.2   | 50.4 | 92.2  | 74.9 | 96.9  | 50.4 |
| 324            | 88.4   | 53.4 | 100.0   | 48.9 | 96.9  | 53.4 |
| 325            | 90.2   | 48.5 | 96.9  | 56.9 | 99.8  | 48.5 |
| 326            | 92.2   | 59.5 | 92.2  | 60.  | 99.8  | 59.5 |
| 327            | 96.9   | 53.0 | 86.8  | 55.8 | 100.0   | 53.0 |
| 328            | 90.6   | 66.6 | 92.7  | 77.4 | 96.9  | 66.1 |
| 329            | 90.2   | 61.8 | 100.0   | 48.3 | 96.9  | 61.8 |
| 330            | 100.0  | 71.5 | 99.8  | 51.9 | 99.8  | 71.5 |
| 331            | 96.9   | 50.3 | 96.9  | 74.8 | 99.8  | 50.2 |
| 332            | 96.9   | 59.2 | 92.2  | 78.0 | 99.8  | 58.6 |
| 333            | 92.0   | 59.8 | 86.8  | 78.0 | 96.9  | 64.8 |

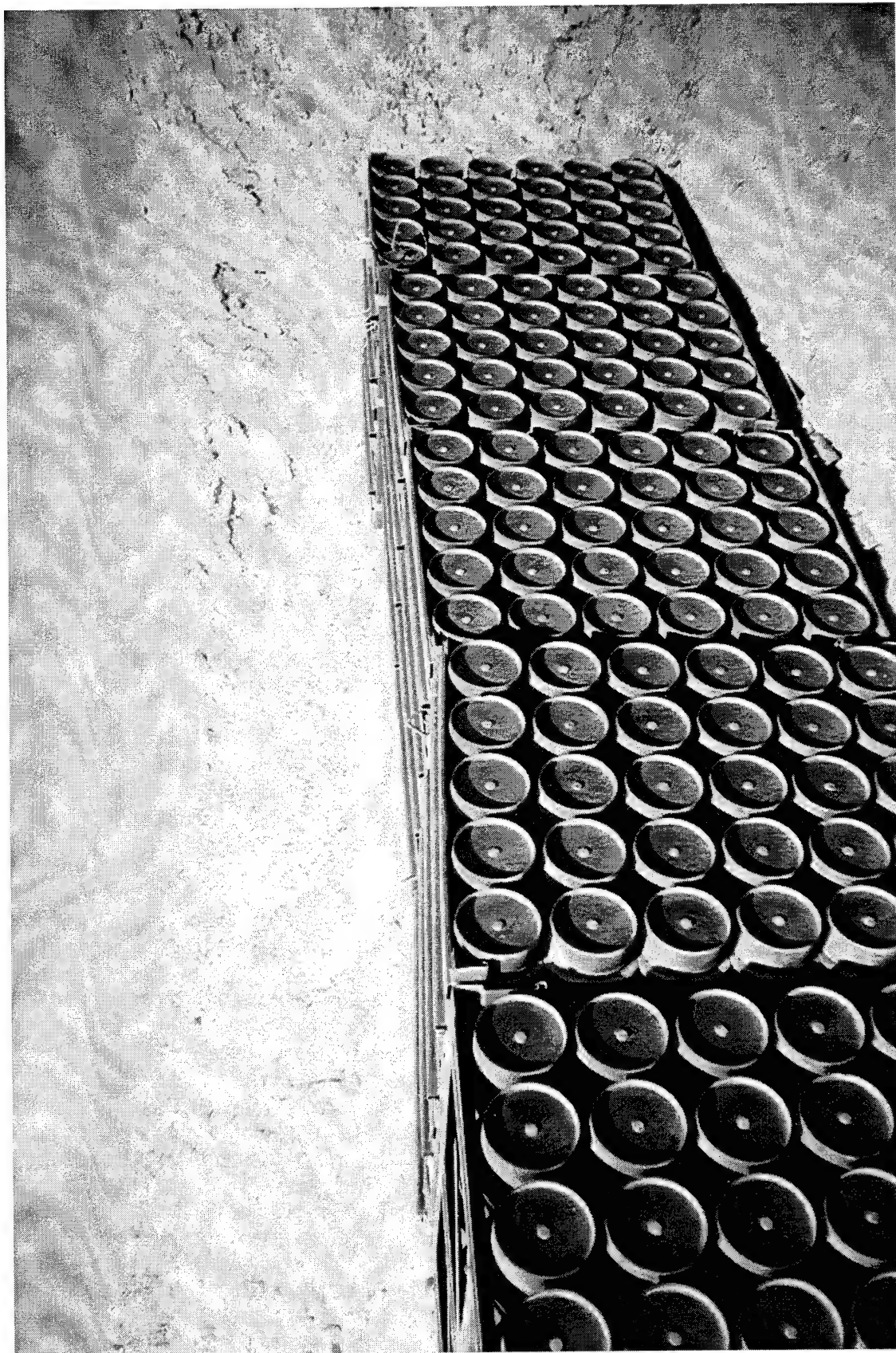
PART 6

PHOTOGRAPHS



U.S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL - SAVANNA, IL

PHOTO NO. 1: This photo shows the typical storage conditions at the ASP located in Somalia.



U.S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL - SAVANNA, IL

PHOTO NO. 2: This photo shows 120mm tank ammunition in open storage.





U.S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL - SAVANNA, IL

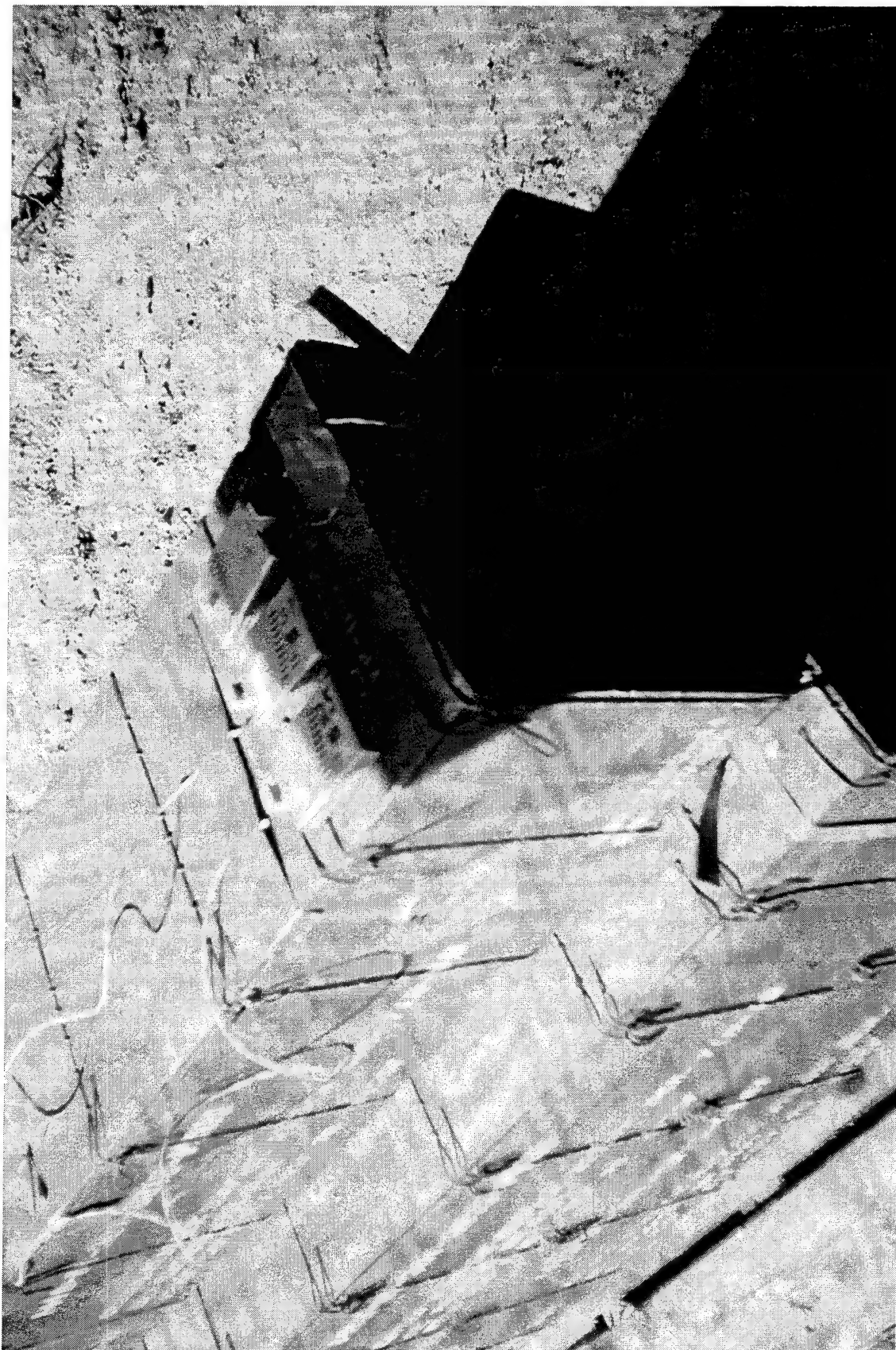
PHOTO NO. 3: This photo shows TOW missiles stored under tarpaulins to reduce solar radiation.



U.S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL - SAVANNA, IL

PHOTO NO. 4: This photo shows open storage conditions following a heavy downpour.





U.S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL - SAVANNA, IL

PHOTO NO. 5: This photo shows a closeup view of three data loggers used to monitor ammunition temperatures. Note: Wires running from the data loggers are exterior probes used to monitor internal ammunition temperatures.

PART 7

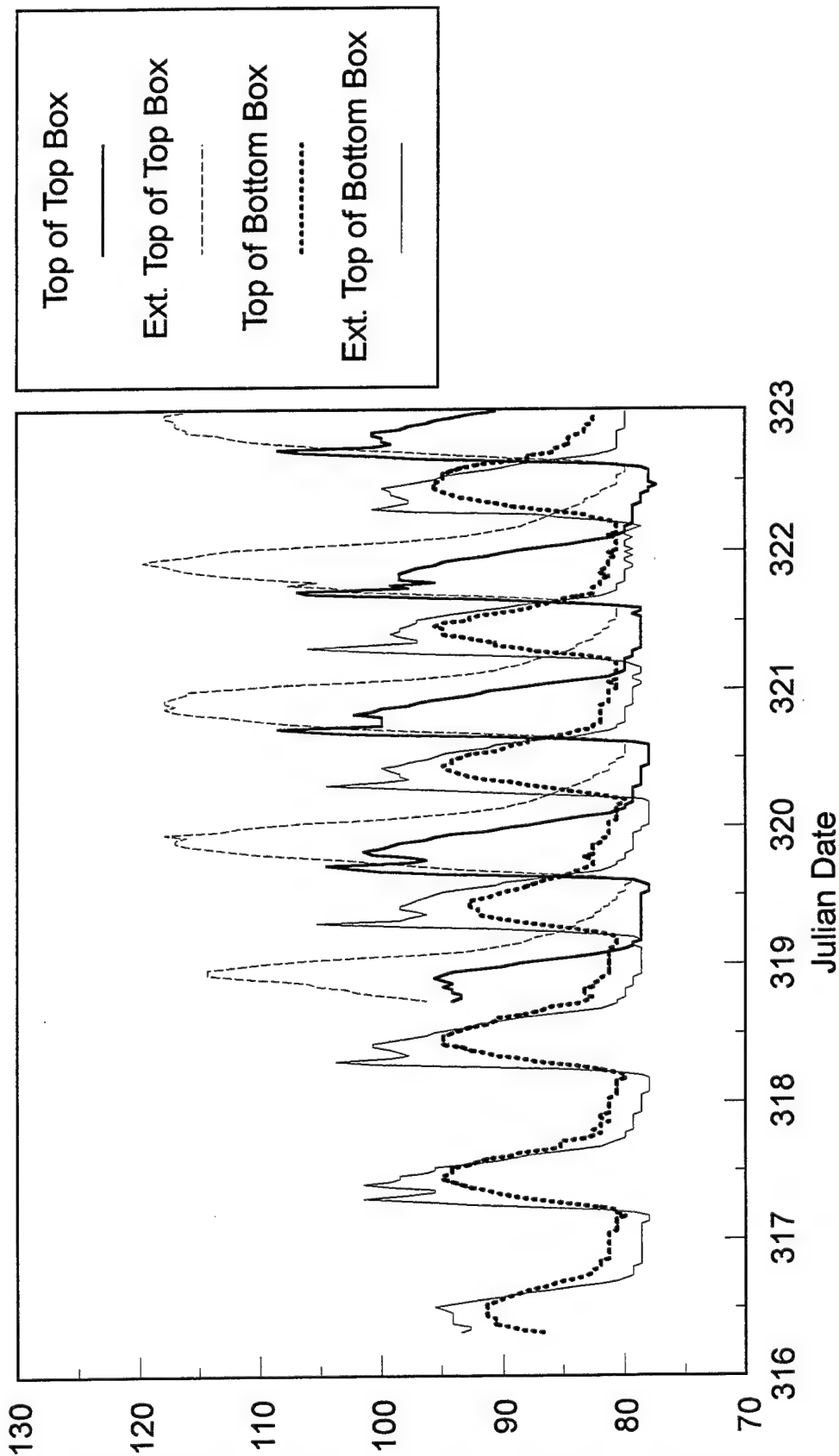
GRAPHS

1993 Environmental Monitoring of Ammo Stored at Somalia

Guided Missile Surface Attack BGM-71-1B (TOW 2)

NSN: 1410-01-301-0815-PV01, LOT: HQ-3160-4A, Serial: 470986

Temperature (Fahrenheit)

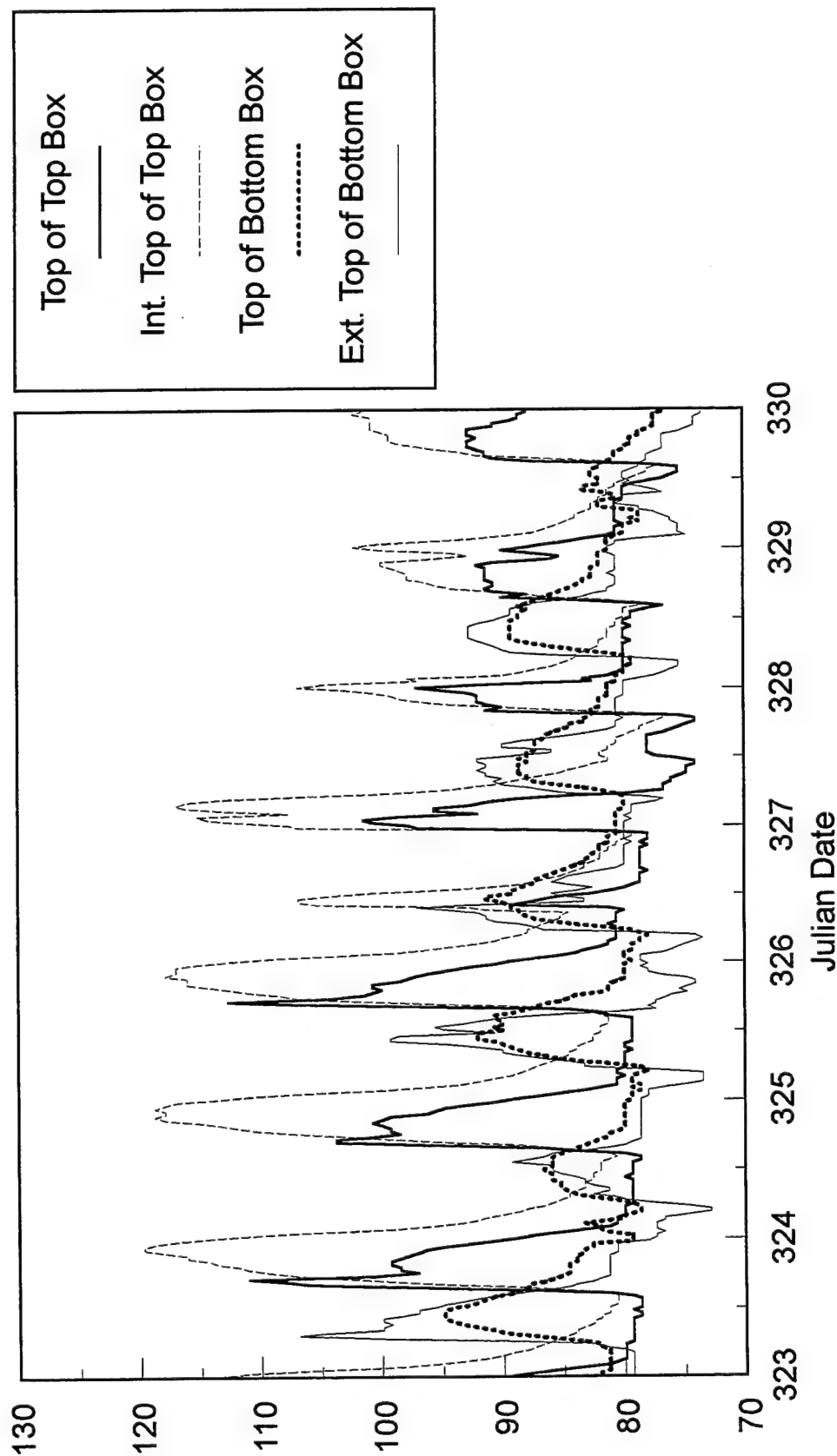


1993 Environmental Monitoring of Ammo Stored at Somalia

Guided Missile Surface Attack BGM-71-1B (TOW 2)

NSN: 1410-01-301-0815-PV01, LOT: HQ-3160-4A, Serial: 470986

Temperature (Fahrenheit)

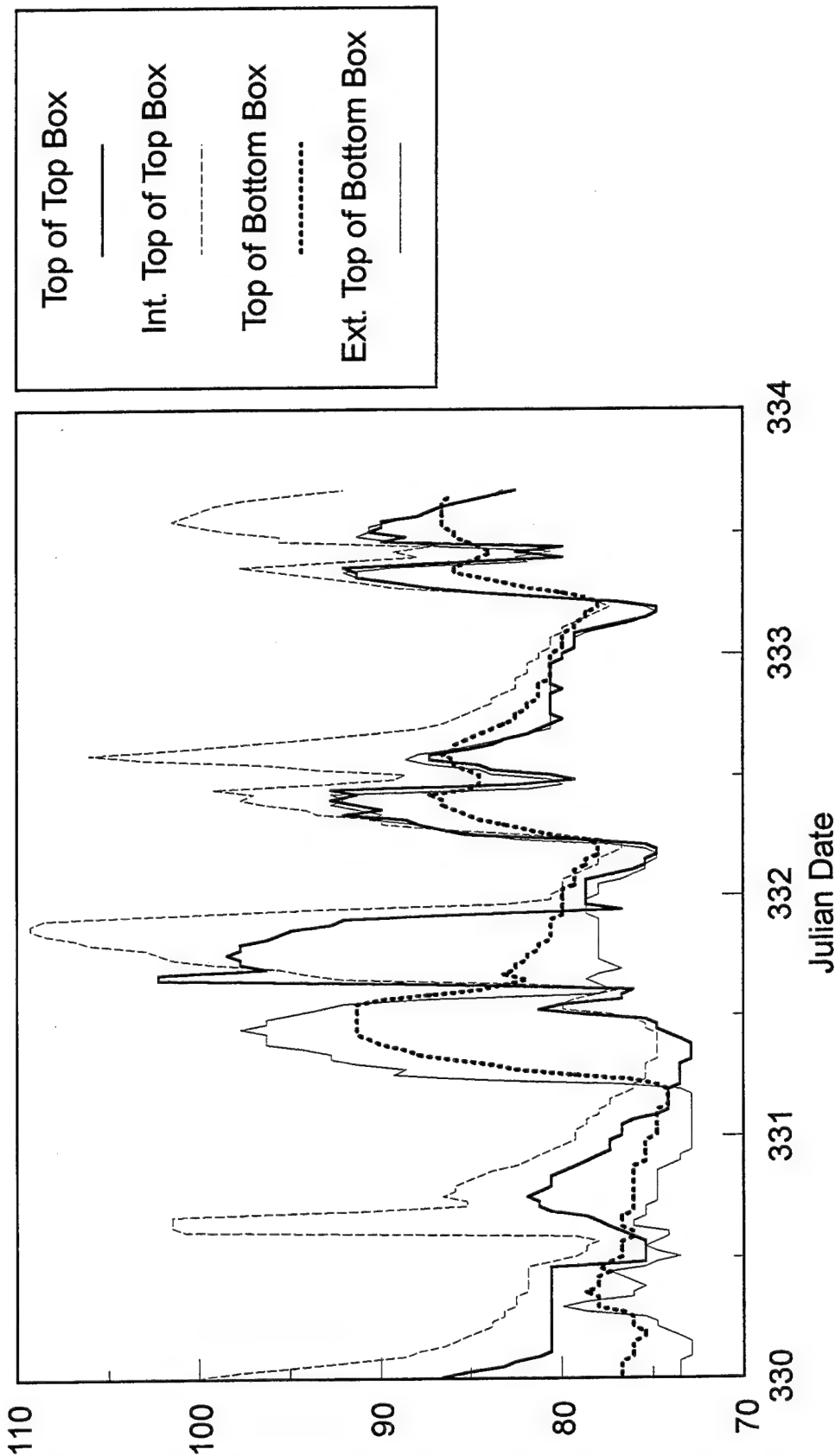


1993 Environmental Monitoring of Ammo Stored at Somalia

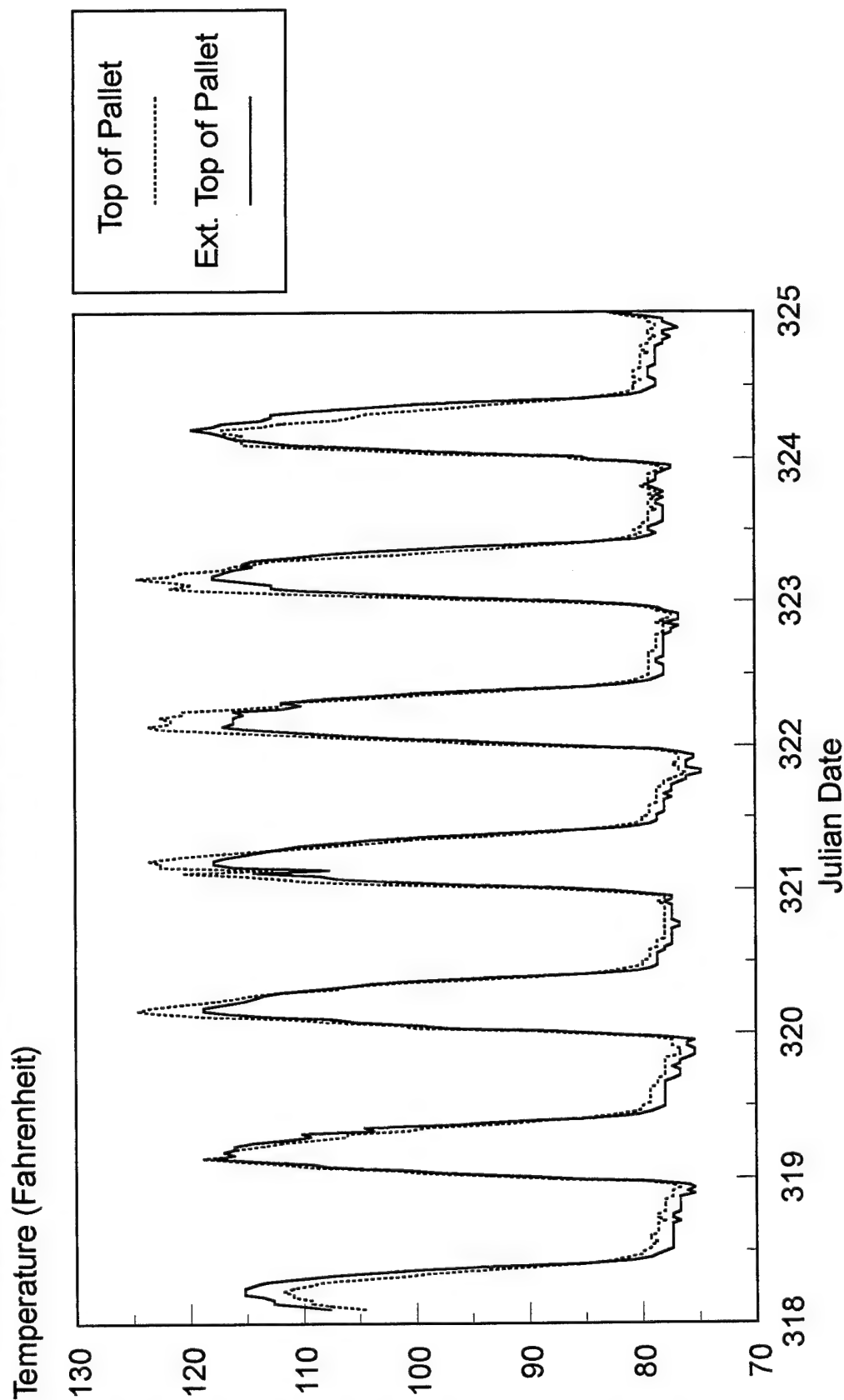
Guided Missile Surface Attack BGM-71-1B (TOW 2)

NSN: 1410-01-301-0815-PV01, LOT: HQ-3160-4A, Serial: 470986

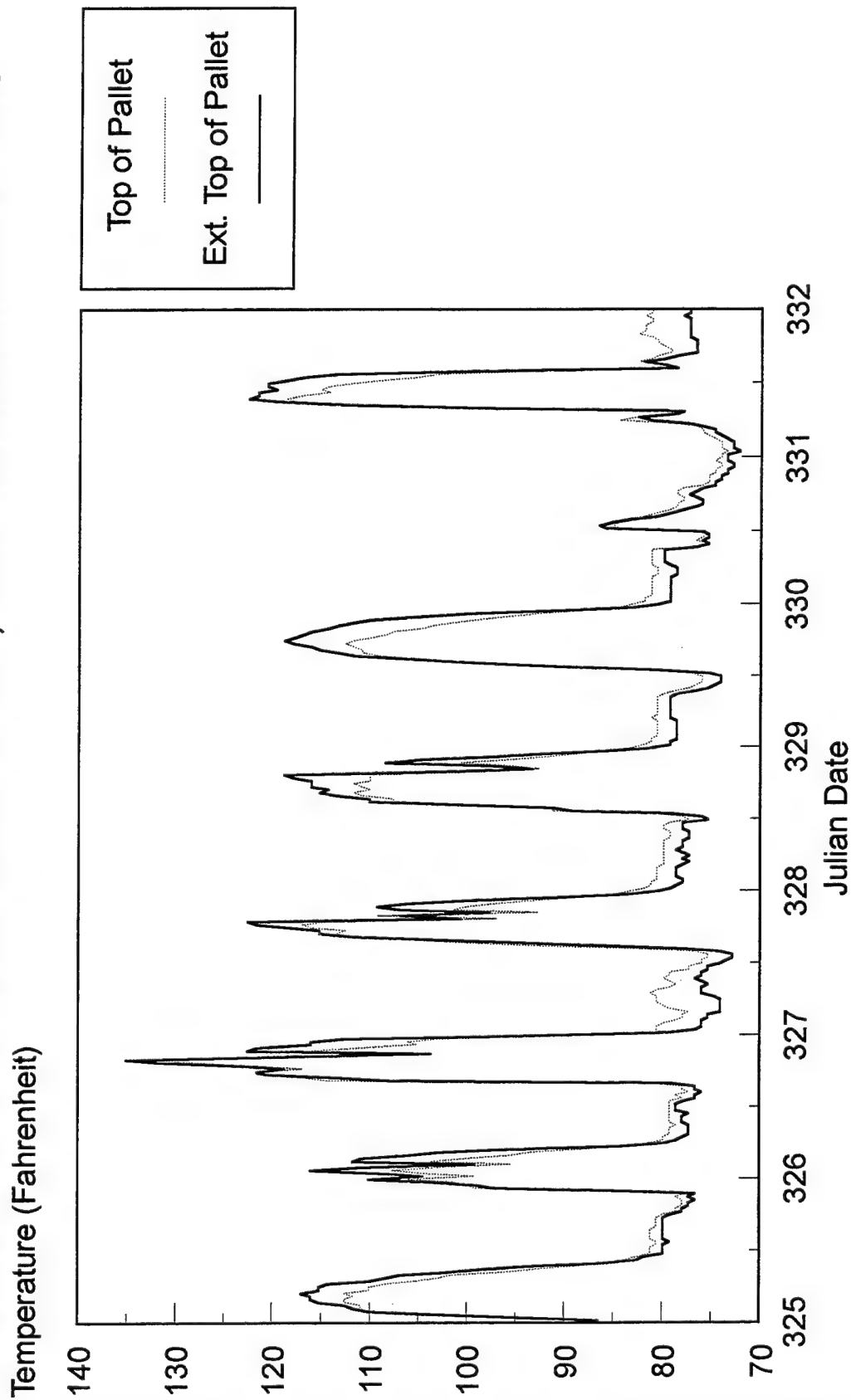
Temperature (Fahrenheit)



1993 Environmental Monitoring of Ammo Stored at Somalia  
Cartridge 120 mm HEAT-MP-T M830  
NSN: 1315-01-232-4638-C787, LOT:MHM90C022Y005



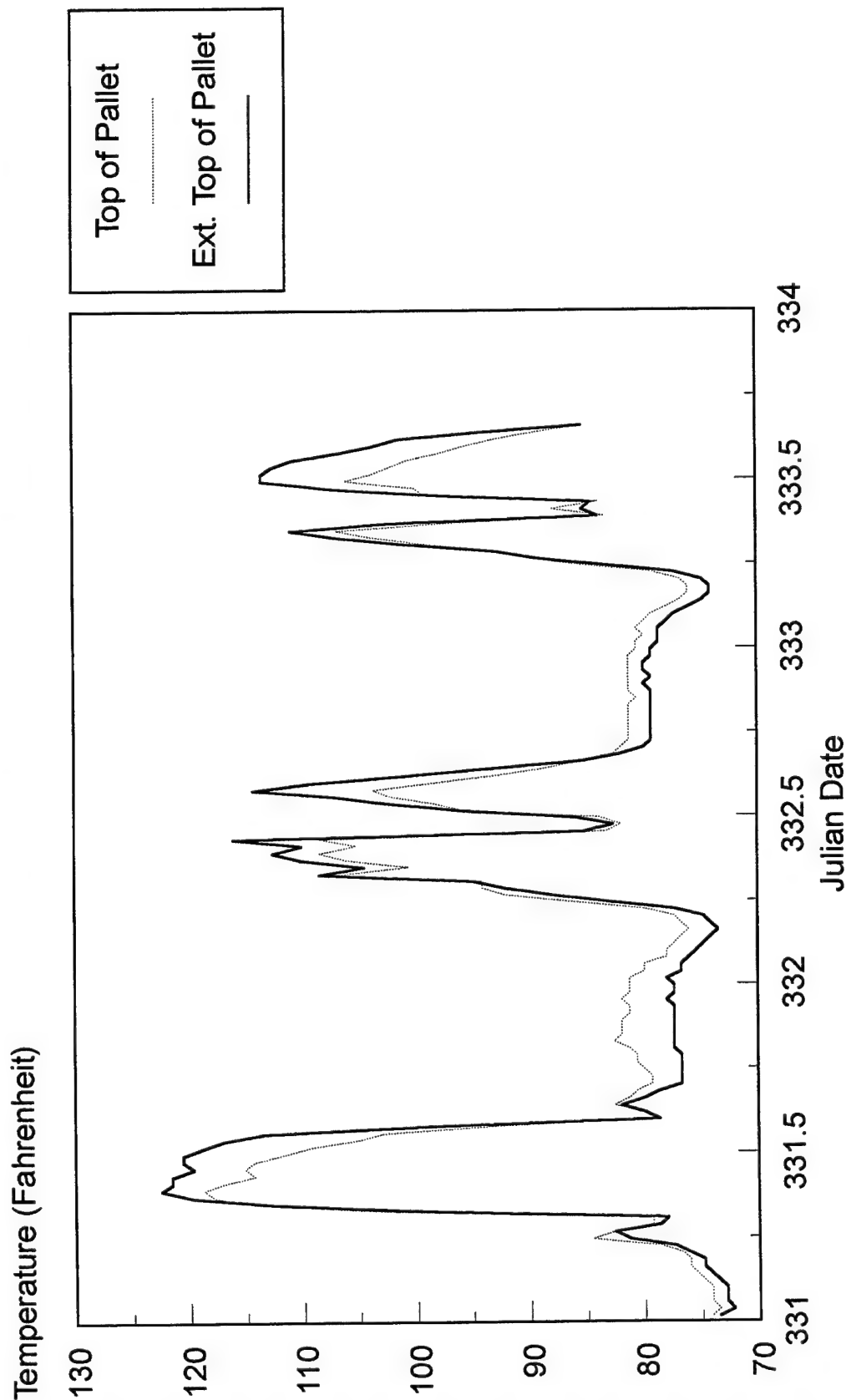
1993 Environmental Monitoring of Ammo Stored at Somalia  
Cartridge 120 mm HEAT-MP-T M830  
NSN: 1315-01-232-4638-C787, LOT:MHM90C022Y005



# 1993 Environmental Monitoring of Ammo Stored at Somalia

Cartridge 120 mm HEAT-MP-T M830

NSN: 1315-01-232-4638-C787, LOT:MHM90C022Y005





PART 8

APPENDIX

TIME INTERVAL: 30 MINUTES

UNITS: °F

GRAPH TITLE Top Box DODIC: PV01

BACKUP TIME/DATE: 19:09:05 03/14-1994

NUMBER OF READINGS: 6796

PROBE LOCATION: Top of Top Pallet

| TIME  | DATE  | Temp.    | Humidity | Ext. Temp. |
|-------|-------|----------|----------|------------|
| 17:39 | 11/14 | 94.11318 | 60.08382 | 96.25862   |
| 18:39 | 11/14 | 93.40607 | 60.40656 | 100.6701   |
| 19:39 | 11/14 | 94.11318 | 58.5515  | 102.9443   |
| 20:39 | 11/14 | 94.11318 | 57.97272 | 106.0576   |
| 21:39 | 11/14 | 95.53933 | 57.97272 | 111.7642   |
| 22:39 | 11/14 | 94.11318 | 58.84782 | 114.3264   |
| 23:39 | 11/14 | 89.92513 | 61.7598  | 111.7642   |
| 00:39 | 11/15 | 86.52454 | 68.07155 | 106.0576   |
| 01:39 | 11/15 | 82.53136 | 75.7299  | 96.98219   |
| 02:39 | 11/15 | 79.91257 | 80.3754  | 91.30706   |
| 03:39 | 11/15 | 79.26248 | 83.92931 | 88.55602   |
| 04:39 | 11/15 | 78.614   | 85.29733 | 87.19887   |
| 05:39 | 11/15 | 78.614   | 85.29733 | 85.18382   |
| 06:39 | 11/15 | 78.614   | 85.29733 | 83.85301   |
| 07:39 | 11/15 | 78.614   | 86.78126 | 83.1911    |
| 08:39 | 11/15 | 78.614   | 85.29733 | 82.53136   |
| 09:39 | 11/15 | 78.614   | 85.29733 | 81.87376   |
| 10:39 | 11/15 | 78.614   | 85.29733 | 81.21815   |
| 11:39 | 11/15 | 78.614   | 85.29733 | 80.56445   |
| 12:39 | 11/15 | 77.96712 | 85.29733 | 79.91257   |
| 13:39 | 11/15 | 77.96712 | 85.29733 | 79.91257   |
| 14:39 | 11/15 | 79.26248 | 86.78126 | 79.91257   |
| 15:39 | 11/15 | 94.82423 | 67.08004 | 87.19887   |
| 16:39 | 11/15 | 102.1807 | 52.09607 | 94.82423   |
| 17:39 | 11/15 | 97.7103  | 51.88293 | 100.6701   |
| 18:39 | 11/15 | 97.7103  | 54.58424 | 106.8517   |
| 19:39 | 11/15 | 101.4227 | 52.52826 | 112.6098   |
| 20:39 | 11/15 | 99.1804  | 53.87699 | 116.0787   |
| 21:39 | 11/15 | 96.25862 | 55.81957 | 116.9689   |
| 22:39 | 11/15 | 94.11318 | 57.97272 | 117.8689   |
| 23:39 | 11/15 | 89.92513 | 67.08004 | 111.7642   |
| 00:39 | 11/16 | 86.52454 | 72.76552 | 106.0576   |
| 01:39 | 11/16 | 83.1911  | 80.3754  | 96.98219   |
| 02:39 | 11/16 | 80.56445 | 83.92931 | 92.00314   |
| 03:39 | 11/16 | 79.91257 | 85.29733 | 89.23902   |
| 04:39 | 11/16 | 79.26248 | 86.78126 | 87.19887   |
| 05:39 | 11/16 | 79.26248 | 86.78126 | 85.85289   |
| 06:39 | 11/16 | 79.26248 | 86.78126 | 84.5172    |
| 07:39 | 11/16 | 78.614   | 86.78126 | 83.1911    |
| 08:39 | 11/16 | 78.614   | 86.78126 | 82.53136   |
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| 14:39 | 11/16 | 79.26248 | 88.40101 | 79.91257   |
| 15:39 | 11/16 | 89.92513 | 74.93769 | 85.85289   |
| 16:39 | 11/16 | 106.0576 | 49.26624 | 97.7103    |
| 17:39 | 11/16 | 99.92271 | 51.04885 | 105.27     |
| 18:39 | 11/16 | 99.92271 | 51.88293 | 110.9267   |

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| 20:39 | 11/16 | 99.92271 | 52.31115 | 117.8689 |
| 21:39 | 11/16 | 96.98219 | 55.06941 | 117.8689 |
| 22:39 | 11/16 | 93.40607 | 57.13676 | 116.9689 |
| 23:39 | 11/16 | 91.30706 | 62.11511 | 116.0787 |
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| 02:39 | 11/17 | 80.56445 | 83.92931 | 92.70279 |
| 03:39 | 11/17 | 79.91257 | 85.29733 | 89.92513 |
| 04:39 | 11/17 | 79.91257 | 86.78126 | 87.87601 |
| 05:39 | 11/17 | 79.26248 | 88.40101 | 85.85289 |
| 06:39 | 11/17 | 79.26248 | 88.40101 | 84.5172  |
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| 14:39 | 11/17 | 81.21815 | 88.40101 | 81.21815 |
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| 17:39 | 11/17 | 97.7103  | 55.06941 | 103.7135 |
| 18:39 | 11/17 | 95.53933 | 56.86607 | 105.27   |
| 19:39 | 11/17 | 98.44294 | 55.81957 | 111.7642 |
| 20:39 | 11/17 | 97.7103  | 56.33583 | 116.0787 |
| 21:39 | 11/17 | 95.53933 | 57.68994 | 117.8689 |
| 22:39 | 11/17 | 93.40607 | 60.08382 | 118.7792 |
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| 02:39 | 11/18 | 80.56445 | 85.29733 | 92.70279 |
| 03:39 | 11/18 | 79.91257 | 86.78126 | 89.92513 |
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| 21:39 | 11/18 | 96.25862 | 56.07601 | 116.9689 |
| 22:39 | 11/18 | 94.11318 | 59.45527 | 117.8689 |
| 23:39 | 11/18 | 90.61443 | 64.41625 | 116.0787 |
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| 06:39 | 11/19 | 79.26248 | 88.40101 | 85.18382 |

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| 07:39 | 11/19 | 79.26248 | 88.40101 | 83.85301 |
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| 15:39 | 11/19 | 96.98219 | 68.59043 | 89.23902 |
| 16:39 | 11/19 | 107.6524 | 50.44117 | 99.1804  |
| 17:39 | 11/19 | 100.6701 | 51.46231 | 106.8517 |
| 18:39 | 11/19 | 98.44294 | 56.33583 | 110.9267 |
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| 02:39 | 11/20 | 80.56445 | 86.78126 | 93.40607 |
| 03:39 | 11/20 | 80.56445 | 86.78126 | 91.30706 |
| 04:39 | 11/20 | 79.91257 | 88.40101 | 88.55602 |
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| 13:39 | 11/20 | 78.614   | 88.40101 | 81.21815 |
| 14:39 | 11/20 | 79.91257 | 88.40101 | 81.21815 |
| 15:39 | 11/20 | 86.52454 | 79.33809 | 85.85289 |
| 16:39 | 11/20 | 103.7135 | 56.07601 | 95.53933 |
| 17:39 | 11/20 | 100.6701 | 53.41817 | 102.9443 |
| 18:39 | 11/20 | 99.1804  | 55.31638 | 110.097  |
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| 15:39 | 11/21 | 84.5172  | 85.29733 | 83.85301 |
| 16:39 | 11/21 | 106.8517 | 53.19234 | 96.25862 |
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| 18:39 | 11/21 | 100.6701 | 53.19234 | 110.9267 |
| 19:39 | 11/21 | 100.6701 | 54.34584 | 114.3264 |
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| 21:39 | 11/21 | 96.98219 | 58.25986 | 117.8689 |
| 22:39 | 11/21 | 94.11318 | 63.6143  | 116.9689 |
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| 00:39 | 11/22 | 87.19887 | 75.7299  | 108.46   |
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| 04:39 | 11/22 | 80.56445 | 90.18186 | 88.55602 |
| 05:39 | 11/22 | 80.56445 | 90.18186 | 87.87601 |
| 06:39 | 11/22 | 81.21815 | 92.15649 | 86.52454 |
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| 01:39 | 11/23 | 98.44294 | 52.96879 | 115.198  |
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| 03:39 | 11/23 | 92.70279 | 58.25986 | 116.9689 |
| 04:39 | 11/23 | 89.23902 | 63.6143  | 113.4638 |
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| 06:39 | 11/23 | 76.6777  | 94.36807 | 92.70279 |
| 07:39 | 11/23 | 76.03503 | 90.18186 | 89.23902 |
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| 20:39 | 11/23 | 89.92513 | 72.76552 | 90.61443 |
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| 22:39 | 11/23 | 92.00314 | 64.83192 | 99.1804  |
| 23:39 | 11/23 | 94.82423 | 62.11511 | 102.9443 |
| 00:39 | 11/24 | 90.61443 | 68.07155 | 104.4887 |
| 01:39 | 11/24 | 83.1911  | 90.18186 | 97.7103  |
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| 03:39 | 11/24 | 79.91257 | 86.78126 | 85.85289 |
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| 05:39 | 11/24 | 79.91257 | 86.78126 | 83.85301 |
| 06:39 | 11/24 | 79.91257 | 86.78126 | 82.53136 |
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| 19:39 | 11/24 | 91.30706 | 66.6056  | 97.7103  |
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| 01:39 | 11/25 | 83.1911  | 80.3754  | 92.00314 |
| 02:39 | 11/25 | 80.56445 | 83.92931 | 87.19887 |
| 03:39 | 11/25 | 80.56445 | 85.29733 | 85.85289 |
| 04:39 | 11/25 | 80.56445 | 86.78126 | 84.5172  |
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| 11:39 | 11/25 | 77.96712 | 86.78126 | 79.91257 |
| 12:39 | 11/25 | 76.03503 | 88.40101 | 78.614   |
| 13:39 | 11/25 | 75.39355 | 90.18186 | 77.96712 |
| 14:39 | 11/25 | 78.614   | 90.18186 | 78.614   |
| 15:39 | 11/25 | 90.61443 | 69.67968 | 87.19887 |
| 16:39 | 11/25 | 91.30706 | 65.25808 | 93.40607 |
| 17:39 | 11/25 | 92.70279 | 62.84837 | 96.98219 |
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| 21:39 | 11/25 | 90.61443 | 63.22705 | 100.6701 |
| 22:39 | 11/25 | 88.55602 | 65.69533 | 100.6701 |
| 23:39 | 11/25 | 87.87601 | 67.5684  | 101.4227 |
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| 02:39 | 11/26 | 80.56445 | 80.3754  | 87.87601 |
| 03:39 | 11/26 | 80.56445 | 81.48016 | 85.85289 |
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| 06:39 | 11/26 | 80.56445 | 82.66124 | 83.1911  |
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| 16:39 | 11/26 | 80.56445 | 96.87523 | 91.30706 |
| 17:39 | 11/26 | 81.21815 | 96.87523 | 85.18382 |
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| 19:39 | 11/26 | 80.56445 | 94.36807 | 85.18382 |
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| 01:39 | 11/27 | 76.03503 | 90.18186 | 78.614   |
| 02:39 | 11/27 | 74.11402 | 94.36807 | 77.96712 |
| 03:39 | 11/27 | 74.11402 | 94.36807 | 77.32169 |
| 04:39 | 11/27 | 74.11402 | 94.36807 | 76.03503 |
| 05:39 | 11/27 | 73.4758  | 94.36807 | 75.39355 |
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| 13:39 | 11/27 | 76.6777  | 94.36807 | 79.26248 |
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| 17:39 | 11/27 | 97.7103  | 50.24176 | 101.4227 |
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| 20:39 | 11/27 | 94.82423 | 52.31115 | 109.2748 |
| 21:39 | 11/27 | 92.00314 | 56.07601 | 108.46   |
| 22:39 | 11/27 | 76.6777  | 90.18186 | 93.40607 |
| 23:39 | 11/27 | 78.614   | 92.15649 | 80.56445 |
| 00:39 | 11/28 | 78.614   | 90.18186 | 79.91257 |
| 01:39 | 11/28 | 78.614   | 88.40101 | 79.91257 |
| 02:39 | 11/28 | 76.03503 | 88.40101 | 78.614   |
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| 07:39 | 11/28 | 88.55602 | 70.25244 | 89.92513 |
| 08:39 | 11/28 | 89.92513 | 63.6143  | 94.11318 |
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| 20:39 | 11/28 | 79.91257 | 81.48016 | 82.53136 |
| 21:39 | 11/28 | 80.56445 | 81.48016 | 82.53136 |
| 22:39 | 11/28 | 80.56445 | 81.48016 | 81.87376 |
| 23:39 | 11/28 | 79.91257 | 81.48016 | 81.21815 |
| 00:39 | 11/29 | 79.26248 | 81.48016 | 80.56445 |
| 01:39 | 11/29 | 79.26248 | 81.48016 | 80.56445 |
| 02:39 | 11/29 | 77.96712 | 82.66124 | 79.91257 |

|       |       |          |          |          |
|-------|-------|----------|----------|----------|
| 03:39 | 11/29 | 75.39355 | 86.78126 | 78.614   |
| 04:39 | 11/29 | 74.75327 | 88.40101 | 77.32169 |
| 05:39 | 11/29 | 80.56445 | 85.29733 | 80.56445 |
| 06:39 | 11/29 | 87.19887 | 72.10051 | 89.23902 |
| 07:39 | 11/29 | 91.30706 | 63.6143  | 93.40607 |
| 08:39 | 11/29 | 92.00314 | 59.7668  | 97.7103  |
| 09:39 | 11/29 | 79.91257 | 90.18186 | 87.87601 |
| 10:39 | 11/29 | 79.91257 | 90.18186 | 87.19887 |
| 11:39 | 11/29 | 88.55602 | 66.6056  | 95.53933 |
| 12:39 | 11/29 | 89.92513 | 64.83192 | 99.92271 |
| 13:39 | 11/29 | 87.87601 | 65.25808 | 100.6701 |
| 14:39 | 11/29 | 86.52454 | 67.5684  | 99.1804  |
| 15:39 | 11/29 | 83.85301 | 73.4584  | 94.82423 |



TIME INTERVAL: 30 MINUTES  
 UNITS: °F  
 GRAPH TITLEDODIC: PV01  
 BACKUP TIME/DATE: 19:23:29 03/14-1994  
 NUMBER OF READINGS: 6912  
 PROBE LOCATION: Top of Bottom Pallet

| TIME  | DATE  | Temp.    | Humidity | Ext. Temp. |
|-------|-------|----------|----------|------------|
| 08:23 | 11/12 | 92.70279 | 59.45527 | 88.55602   |
| 09:23 | 11/12 | 94.11318 | 58.5515  | 90.61443   |
| 10:23 | 11/12 | 94.11318 | 56.86607 | 90.61443   |
| 11:23 | 11/12 | 94.11318 | 56.07601 | 91.30706   |
| 12:23 | 11/12 | 95.53933 | 55.81957 | 91.30706   |
| 13:23 | 11/12 | 92.70279 | 57.41133 | 90.61443   |
| 14:23 | 11/12 | 89.23902 | 61.07018 | 89.23902   |
| 15:23 | 11/12 | 85.85289 | 67.08004 | 87.87601   |
| 16:23 | 11/12 | 81.87376 | 74.93769 | 85.85289   |
| 17:23 | 11/12 | 79.91257 | 79.33809 | 83.85301   |
| 18:23 | 11/12 | 79.26248 | 82.66124 | 82.53136   |
| 19:23 | 11/12 | 79.26248 | 83.92931 | 81.87376   |
| 20:23 | 11/12 | 78.614   | 83.92931 | 81.87376   |
| 21:23 | 11/12 | 78.614   | 83.92931 | 81.21815   |
| 22:23 | 11/12 | 78.614   | 83.92931 | 81.21815   |
| 23:23 | 11/12 | 78.614   | 83.92931 | 81.21815   |
| 00:23 | 11/13 | 78.614   | 83.92931 | 81.21815   |
| 01:23 | 11/13 | 78.614   | 83.92931 | 81.21815   |
| 02:23 | 11/13 | 78.614   | 85.29733 | 80.56445   |
| 03:23 | 11/13 | 77.96712 | 83.92931 | 80.56445   |
| 04:23 | 11/13 | 77.96712 | 83.92931 | 79.91257   |
| 05:23 | 11/13 | 81.87376 | 82.66124 | 80.56445   |
| 06:23 | 11/13 | 92.70279 | 61.07018 | 83.85301   |
| 07:23 | 11/13 | 101.4227 | 48.50926 | 87.87601   |
| 08:23 | 11/13 | 95.53933 | 53.87699 | 90.61443   |
| 09:23 | 11/13 | 99.1804  | 52.74745 | 92.70279   |
| 10:23 | 11/13 | 99.1804  | 52.09607 | 94.11318   |
| 11:23 | 11/13 | 98.44294 | 52.96879 | 94.82423   |
| 12:23 | 11/13 | 95.53933 | 55.31638 | 94.11318   |
| 13:23 | 11/13 | 92.70279 | 59.45527 | 92.70279   |
| 14:23 | 11/13 | 89.23902 | 66.14427 | 91.30706   |
| 15:23 | 11/13 | 85.85289 | 71.46124 | 88.55602   |
| 16:23 | 11/13 | 81.87376 | 79.33809 | 85.18382   |
| 17:23 | 11/13 | 80.56445 | 83.92931 | 85.18382   |
| 18:23 | 11/13 | 79.91257 | 85.29733 | 82.53136   |
| 19:23 | 11/13 | 79.26248 | 83.92931 | 82.53136   |
| 20:23 | 11/13 | 79.26248 | 85.29733 | 81.87376   |
| 21:23 | 11/13 | 79.26248 | 85.29733 | 81.87376   |
| 22:23 | 11/13 | 78.614   | 85.29733 | 81.21815   |
| 23:23 | 11/13 | 78.614   | 85.29733 | 81.21815   |
| 00:23 | 11/14 | 78.614   | 86.78126 | 81.21815   |
| 01:23 | 11/14 | 78.614   | 86.78126 | 80.56445   |
| 02:23 | 11/14 | 77.96712 | 86.78126 | 80.56445   |
| 03:23 | 11/14 | 77.96712 | 86.78126 | 80.56445   |
| 04:23 | 11/14 | 77.96712 | 86.78126 | 79.91257   |
| 05:23 | 11/14 | 80.56445 | 85.29733 | 80.56445   |
| 06:23 | 11/14 | 92.70279 | 64.41625 | 83.1911    |
| 07:23 | 11/14 | 103.7135 | 47.58847 | 87.19887   |
| 08:23 | 11/14 | 97.7103  | 52.96879 | 90.61443   |
| 09:23 | 11/14 | 99.1804  | 51.46231 | 92.70279   |

|       |       |          |          |          |
|-------|-------|----------|----------|----------|
| 10:23 | 11/14 | 100.6701 | 50.44117 | 94.82423 |
| 11:23 | 11/14 | 97.7103  | 52.74745 | 94.82423 |
| 12:23 | 11/14 | 95.53933 | 53.87699 | 94.11318 |
| 13:23 | 11/14 | 92.00314 | 57.97272 | 92.70279 |
| 14:23 | 11/14 | 89.92513 | 62.11511 | 90.61443 |
| 15:23 | 11/14 | 86.52454 | 70.25244 | 88.55602 |
| 16:23 | 11/14 | 81.87376 | 78.36076 | 86.52454 |
| 17:23 | 11/14 | 80.56445 | 83.92931 | 83.85301 |
| 18:23 | 11/14 | 79.91257 | 85.29733 | 82.53136 |
| 19:23 | 11/14 | 79.91257 | 85.29733 | 83.1911  |
| 20:23 | 11/14 | 79.26248 | 86.78126 | 82.53136 |
| 21:23 | 11/14 | 79.26248 | 86.78126 | 81.87376 |
| 22:23 | 11/14 | 78.614   | 88.40101 | 81.21815 |
| 23:23 | 11/14 | 78.614   | 88.40101 | 81.21815 |
| 00:23 | 11/15 | 78.614   | 88.40101 | 81.21815 |
| 01:23 | 11/15 | 78.614   | 88.40101 | 81.21815 |
| 02:23 | 11/15 | 78.614   | 88.40101 | 81.21815 |
| 03:23 | 11/15 | 79.26248 | 88.40101 | 80.56445 |
| 04:23 | 11/15 | 78.614   | 88.40101 | 80.56445 |
| 05:23 | 11/15 | 82.53136 | 83.92931 | 81.21815 |
| 06:23 | 11/15 | 90.61443 | 69.12609 | 83.85301 |
| 07:23 | 11/15 | 105.27   | 47.40736 | 87.87601 |
| 08:23 | 11/15 | 97.7103  | 54.8254  | 90.61443 |
| 09:23 | 11/15 | 96.98219 | 55.31638 | 92.00314 |
| 10:23 | 11/15 | 98.44294 | 54.34584 | 92.70279 |
| 11:23 | 11/15 | 96.98219 | 55.06941 | 92.70279 |
| 12:23 | 11/15 | 95.53933 | 56.33583 | 90.61443 |
| 13:23 | 11/15 | 92.70279 | 60.40656 | 88.55602 |
| 14:23 | 11/15 | 89.92513 | 65.25808 | 87.19887 |
| 15:23 | 11/15 | 85.85289 | 74.18155 | 85.18382 |
| 16:23 | 11/15 | 81.87376 | 80.3754  | 83.85301 |
| 17:23 | 11/15 | 80.56445 | 85.29733 | 82.53136 |
| 18:23 | 11/15 | 79.91257 | 85.29733 | 82.53136 |
| 19:23 | 11/15 | 79.91257 | 85.29733 | 82.53136 |
| 20:23 | 11/15 | 79.26248 | 86.78126 | 82.53136 |
| 21:23 | 11/15 | 79.26248 | 86.78126 | 81.87376 |
| 22:23 | 11/15 | 79.26248 | 86.78126 | 81.21815 |
| 23:23 | 11/15 | 78.614   | 86.78126 | 81.21815 |
| 00:23 | 11/16 | 77.96712 | 86.78126 | 81.21815 |
| 01:23 | 11/16 | 77.96712 | 88.40101 | 80.56445 |
| 02:23 | 11/16 | 77.96712 | 88.40101 | 80.56445 |
| 03:23 | 11/16 | 77.96712 | 88.40101 | 80.56445 |
| 04:23 | 11/16 | 77.96712 | 88.40101 | 79.91257 |
| 05:23 | 11/16 | 82.53136 | 83.92931 | 81.21815 |
| 06:23 | 11/16 | 94.11318 | 62.47784 | 84.5172  |
| 07:23 | 11/16 | 104.4887 | 47.77055 | 87.87601 |
| 08:23 | 11/16 | 97.7103  | 52.74745 | 91.30706 |
| 09:23 | 11/16 | 98.44294 | 52.52826 | 93.40607 |
| 10:23 | 11/16 | 99.92271 | 51.6717  | 94.82423 |
| 11:23 | 11/16 | 97.7103  | 53.64637 | 94.11318 |
| 12:23 | 11/16 | 95.53933 | 56.07601 | 93.40607 |
| 13:23 | 11/16 | 93.40607 | 58.5515  | 90.61443 |
| 14:23 | 11/16 | 90.61443 | 64.01054 | 89.23902 |
| 15:23 | 11/16 | 86.52454 | 71.46124 | 87.87601 |
| 16:23 | 11/16 | 82.53136 | 81.48016 | 84.5172  |
| 17:23 | 11/16 | 80.56445 | 85.29733 | 82.53136 |
| 18:23 | 11/16 | 79.91257 | 86.78126 | 81.87376 |
| 19:23 | 11/16 | 79.91257 | 86.78126 | 81.87376 |
| 20:23 | 11/16 | 79.91257 | 86.78126 | 81.87376 |

|       |       |          |          |          |
|-------|-------|----------|----------|----------|
| 21:23 | 11/16 | 79.26248 | 88.40101 | 81.87376 |
| 22:23 | 11/16 | 79.26248 | 88.40101 | 81.21815 |
| 23:23 | 11/16 | 79.26248 | 86.78126 | 81.21815 |
| 00:23 | 11/17 | 79.26248 | 86.78126 | 80.56445 |
| 01:23 | 11/17 | 78.614   | 88.40101 | 81.21815 |
| 02:23 | 11/17 | 79.26248 | 88.40101 | 80.56445 |
| 03:23 | 11/17 | 78.614   | 88.40101 | 80.56445 |
| 04:23 | 11/17 | 79.26248 | 88.40101 | 80.56445 |
| 05:23 | 11/17 | 82.53136 | 85.29733 | 81.21815 |
| 06:23 | 11/17 | 96.25862 | 60.40656 | 84.5172  |
| 07:23 | 11/17 | 106.0576 | 47.58847 | 88.55602 |
| 08:23 | 11/17 | 96.98219 | 54.8254  | 90.61443 |
| 09:23 | 11/17 | 98.44294 | 55.06941 | 93.40607 |
| 10:23 | 11/17 | 98.44294 | 54.58424 | 94.82423 |
| 11:23 | 11/17 | 97.7103  | 54.58424 | 95.53933 |
| 12:23 | 11/17 | 96.98219 | 56.07601 | 92.70279 |
| 13:23 | 11/17 | 94.11318 | 58.84782 | 91.30706 |
| 14:23 | 11/17 | 89.92513 | 67.08004 | 87.87601 |
| 15:23 | 11/17 | 86.52454 | 73.4584  | 85.85289 |
| 16:23 | 11/17 | 81.87376 | 82.66124 | 83.85301 |
| 17:23 | 11/17 | 80.56445 | 86.78126 | 82.53136 |
| 18:23 | 11/17 | 80.56445 | 86.78126 | 81.87376 |
| 19:23 | 11/17 | 79.91257 | 86.78126 | 81.87376 |
| 20:23 | 11/17 | 79.91257 | 86.78126 | 81.87376 |
| 21:23 | 11/17 | 79.26248 | 88.40101 | 81.21815 |
| 22:23 | 11/17 | 79.91257 | 88.40101 | 81.21815 |
| 23:23 | 11/17 | 79.26248 | 88.40101 | 80.56445 |
| 00:23 | 11/18 | 79.26248 | 86.78126 | 80.56445 |
| 01:23 | 11/18 | 79.91257 | 86.78126 | 80.56445 |
| 02:23 | 11/18 | 79.26248 | 86.78126 | 80.56445 |
| 03:23 | 11/18 | 79.91257 | 86.78126 | 80.56445 |
| 04:23 | 11/18 | 78.614   | 88.40101 | 80.56445 |
| 05:23 | 11/18 | 81.87376 | 86.78126 | 81.21815 |
| 06:23 | 11/18 | 87.19887 | 75.7299  | 83.1911  |
| 07:23 | 11/18 | 100.6701 | 52.96879 | 87.19887 |
| 08:23 | 11/18 | 97.7103  | 54.8254  | 90.61443 |
| 09:23 | 11/18 | 98.44294 | 54.58424 | 93.40607 |
| 10:23 | 11/18 | 99.1804  | 53.87699 | 94.82423 |
| 11:23 | 11/18 | 98.44294 | 54.11012 | 95.53933 |
| 12:23 | 11/18 | 95.53933 | 57.68994 | 94.82423 |
| 13:23 | 11/18 | 93.40607 | 60.40656 | 94.82423 |
| 14:23 | 11/18 | 89.92513 | 67.08004 | 93.40607 |
| 15:23 | 11/18 | 86.52454 | 73.4584  | 89.92513 |
| 16:23 | 11/18 | 82.53136 | 82.66124 | 87.87601 |
| 17:23 | 11/18 | 80.56445 | 86.78126 | 85.85289 |
| 18:23 | 11/18 | 80.56445 | 86.78126 | 84.5172  |
| 19:23 | 11/18 | 80.56445 | 88.40101 | 84.5172  |
| 20:23 | 11/18 | 80.56445 | 88.40101 | 83.1911  |
| 21:23 | 11/18 | 79.91257 | 88.40101 | 83.1911  |
| 22:23 | 11/18 | 79.91257 | 88.40101 | 82.53136 |
| 23:23 | 11/18 | 79.91257 | 88.40101 | 82.53136 |
| 00:23 | 11/19 | 79.26248 | 88.40101 | 81.87376 |
| 01:23 | 11/19 | 79.26248 | 88.40101 | 81.21815 |
| 02:23 | 11/19 | 79.26248 | 88.40101 | 81.21815 |
| 03:23 | 11/19 | 79.26248 | 88.40101 | 81.21815 |
| 04:23 | 11/19 | 79.26248 | 88.40101 | 81.21815 |
| 05:23 | 11/19 | 81.87376 | 86.78126 | 81.87376 |
| 06:23 | 11/19 | 88.55602 | 75.7299  | 83.1911  |
| 07:23 | 11/19 | 106.8517 | 47.2272  | 87.87601 |

|       |       |          |          |          |
|-------|-------|----------|----------|----------|
| 08:23 | 11/19 | 99.92271 | 51.46231 | 90.61443 |
| 09:23 | 11/19 | 99.1804  | 53.87699 | 93.40607 |
| 10:23 | 11/19 | 99.92271 | 52.74745 | 94.82423 |
| 11:23 | 11/19 | 96.98219 | 56.07601 | 94.82423 |
| 12:23 | 11/19 | 95.53933 | 59.14902 | 94.11318 |
| 13:23 | 11/19 | 93.40607 | 63.22705 | 92.00314 |
| 14:23 | 11/19 | 90.61443 | 69.12609 | 90.61443 |
| 15:23 | 11/19 | 86.52454 | 76.56169 | 88.55602 |
| 16:23 | 11/19 | 83.85301 | 83.92931 | 87.87601 |
| 17:23 | 11/19 | 81.87376 | 88.40101 | 85.85289 |
| 18:23 | 11/19 | 81.21815 | 90.18186 | 84.5172  |
| 19:23 | 11/19 | 81.21815 | 90.18186 | 84.5172  |
| 20:23 | 11/19 | 81.21815 | 90.18186 | 83.85301 |
| 21:23 | 11/19 | 81.21815 | 90.18186 | 83.85301 |
| 22:23 | 11/19 | 80.56445 | 92.15649 | 83.1911  |
| 23:23 | 11/19 | 80.56445 | 92.15649 | 82.53136 |
| 00:23 | 11/20 | 77.32169 | 100      | 79.26248 |
| 01:23 | 11/20 | 76.6777  | 100      | 81.21815 |
| 02:23 | 11/20 | 77.32169 | 100      | 81.87376 |
| 03:23 | 11/20 | 76.6777  | 100      | 81.21815 |
| 04:23 | 11/20 | 74.75327 | 99.76005 | 79.91257 |
| 05:23 | 11/20 | 72.83846 | 96.87523 | 78.614   |
| 06:23 | 11/20 | 77.32169 | 96.87523 | 79.26248 |
| 07:23 | 11/20 | 80.56445 | 96.87523 | 82.53136 |
| 08:23 | 11/20 | 81.21815 | 96.87523 | 84.5172  |
| 09:23 | 11/20 | 82.53136 | 96.87523 | 85.18382 |
| 10:23 | 11/20 | 83.1911  | 96.87523 | 85.85289 |
| 11:23 | 11/20 | 85.18382 | 92.15649 | 85.85289 |
| 12:23 | 11/20 | 85.85289 | 88.40101 | 86.52454 |
| 13:23 | 11/20 | 89.23902 | 76.56169 | 85.85289 |
| 14:23 | 11/20 | 86.52454 | 74.93769 | 85.85289 |
| 15:23 | 11/20 | 83.1911  | 75.7299  | 84.5172  |
| 16:23 | 11/20 | 79.91257 | 79.33809 | 83.1911  |
| 17:23 | 11/20 | 78.614   | 82.66124 | 81.87376 |
| 18:23 | 11/20 | 78.614   | 85.29733 | 81.21815 |
| 19:23 | 11/20 | 78.614   | 86.78126 | 79.91257 |
| 20:23 | 11/20 | 78.614   | 86.78126 | 79.91257 |
| 21:23 | 11/20 | 78.614   | 85.29733 | 79.91257 |
| 22:23 | 11/20 | 78.614   | 85.29733 | 79.91257 |
| 23:23 | 11/20 | 78.614   | 86.78126 | 79.91257 |
| 00:23 | 11/21 | 78.614   | 86.78126 | 79.26248 |
| 01:23 | 11/21 | 77.96712 | 88.40101 | 79.26248 |
| 02:23 | 11/21 | 76.6777  | 96.87523 | 79.26248 |
| 03:23 | 11/21 | 73.4758  | 96.87523 | 79.26248 |
| 04:23 | 11/21 | 73.4758  | 96.87523 | 79.26248 |
| 05:23 | 11/21 | 77.32169 | 96.87523 | 77.96712 |
| 06:23 | 11/21 | 83.1911  | 96.87523 | 80.56445 |
| 07:23 | 11/21 | 86.52454 | 96.87523 | 85.18382 |
| 08:23 | 11/21 | 89.92513 | 96.87523 | 87.87601 |
| 09:23 | 11/21 | 92.00314 | 90.18186 | 89.23902 |
| 10:23 | 11/21 | 99.1804  | 81.48016 | 90.61443 |
| 11:23 | 11/21 | 98.44294 | 48.88533 | 92.00314 |
| 12:23 | 11/21 | 94.82423 | 50.64213 | 89.92513 |
| 13:23 | 11/21 | 93.40607 | 52.96879 | 89.92513 |
| 14:23 | 11/21 | 89.92513 | 57.97272 | 90.61443 |
| 15:23 | 11/21 | 81.21815 | 70.25244 | 89.23902 |
| 16:23 | 11/21 | 77.96712 | 90.18186 | 87.19887 |
| 17:23 | 11/21 | 77.32169 | 85.29733 | 85.18382 |
| 18:23 | 11/21 | 76.03503 | 90.18186 | 83.85301 |

|       |       |          |          |          |
|-------|-------|----------|----------|----------|
| 19:23 | 11/21 | 75.39355 | 96.87523 | 81.21815 |
| 20:23 | 11/21 | 74.11402 | 96.87523 | 81.21815 |
| 21:23 | 11/21 | 74.75327 | 96.87523 | 79.91257 |
| 22:23 | 11/21 | 77.96712 | 94.36807 | 79.91257 |
| 23:23 | 11/21 | 78.614   | 88.40101 | 79.91257 |
| 00:23 | 11/22 | 78.614   | 88.40101 | 79.26248 |
| 01:23 | 11/22 | 78.614   | 86.78126 | 79.91257 |
| 02:23 | 11/22 | 76.03503 | 90.18186 | 79.26248 |
| 03:23 | 11/22 | 74.75327 | 90.18186 | 79.26248 |
| 04:23 | 11/22 | 73.4758  | 92.15649 | 78.614   |
| 05:23 | 11/22 | 78.614   | 90.18186 | 78.614   |
| 06:23 | 11/22 | 87.19887 | 69.12609 | 81.21815 |
| 07:23 | 11/22 | 90.61443 | 61.7598  | 85.85289 |
| 08:23 | 11/22 | 91.30706 | 59.7668  | 87.87601 |
| 09:23 | 11/22 | 94.11318 | 56.86607 | 88.55602 |
| 10:23 | 11/22 | 92.70279 | 59.45527 | 89.23902 |
| 11:23 | 11/22 | 83.1911  | 96.87523 | 91.30706 |
| 12:23 | 11/22 | 85.85289 | 96.87523 | 89.23902 |
| 13:23 | 11/22 | 82.53136 | 90.18186 | 88.55602 |
| 14:23 | 11/22 | 85.85289 | 88.40101 | 87.19887 |
| 15:23 | 11/22 | 84.5172  | 79.33809 | 86.52454 |
| 16:23 | 11/22 | 81.87376 | 77.4371  | 85.18382 |
| 17:23 | 11/22 | 79.91257 | 83.92931 | 83.85301 |
| 18:23 | 11/22 | 79.91257 | 83.92931 | 83.1911  |
| 19:23 | 11/22 | 79.91257 | 83.92931 | 82.53136 |
| 20:23 | 11/22 | 79.91257 | 83.92931 | 81.87376 |
| 21:23 | 11/22 | 79.26248 | 82.66124 | 81.21815 |
| 22:23 | 11/22 | 79.26248 | 83.92931 | 81.21815 |
| 23:23 | 11/22 | 79.91257 | 83.92931 | 80.56445 |
| 00:23 | 11/23 | 79.91257 | 83.92931 | 80.56445 |
| 01:23 | 11/23 | 79.26248 | 83.92931 | 80.56445 |
| 02:23 | 11/23 | 79.26248 | 83.92931 | 80.56445 |
| 03:23 | 11/23 | 79.26248 | 83.92931 | 79.91257 |
| 04:23 | 11/23 | 77.32169 | 86.78126 | 79.91257 |
| 05:23 | 11/23 | 78.614   | 86.78126 | 79.91257 |
| 06:23 | 11/23 | 86.52454 | 70.25244 | 81.87376 |
| 07:23 | 11/23 | 89.92513 | 65.69533 | 85.18382 |
| 08:23 | 11/23 | 89.92513 | 64.41625 | 87.87601 |
| 09:23 | 11/23 | 91.30706 | 62.11511 | 88.55602 |
| 10:23 | 11/23 | 91.30706 | 60.73526 | 88.55602 |
| 11:23 | 11/23 | 92.00314 | 60.73526 | 87.87601 |
| 12:23 | 11/23 | 89.23902 | 61.41159 | 87.87601 |
| 13:23 | 11/23 | 85.85289 | 68.07155 | 87.19887 |
| 14:23 | 11/23 | 89.92513 | 66.14427 | 87.19887 |
| 15:23 | 11/23 | 86.52454 | 69.12609 | 86.52454 |
| 16:23 | 11/23 | 82.53136 | 76.56169 | 85.85289 |
| 17:23 | 11/23 | 80.56445 | 80.3754  | 84.5172  |
| 18:23 | 11/23 | 80.56445 | 81.48016 | 83.1911  |
| 19:23 | 11/23 | 80.56445 | 82.66124 | 82.53136 |
| 20:23 | 11/23 | 80.56445 | 78.36076 | 82.53136 |
| 21:23 | 11/23 | 80.56445 | 79.33809 | 81.87376 |
| 22:23 | 11/23 | 80.56445 | 79.33809 | 81.87376 |
| 23:23 | 11/23 | 79.91257 | 79.33809 | 81.21815 |
| 00:23 | 11/24 | 79.91257 | 79.33809 | 81.21815 |
| 01:23 | 11/24 | 79.91257 | 80.3754  | 80.56445 |
| 02:23 | 11/24 | 77.32169 | 83.92931 | 80.56445 |
| 03:23 | 11/24 | 76.03503 | 86.78126 | 79.91257 |
| 04:23 | 11/24 | 75.39355 | 88.40101 | 79.26248 |
| 05:23 | 11/24 | 79.26248 | 85.29733 | 79.26248 |

|       |       |          |          |          |
|-------|-------|----------|----------|----------|
| 06:23 | 11/24 | 89.23902 | 64.83192 | 81.87376 |
| 07:23 | 11/24 | 90.61443 | 60.08382 | 85.85289 |
| 08:23 | 11/24 | 92.00314 | 57.41133 | 88.55602 |
| 09:23 | 11/24 | 92.70279 | 56.33583 | 89.23902 |
| 10:23 | 11/24 | 92.70279 | 55.81957 | 89.23902 |
| 11:23 | 11/24 | 92.00314 | 56.59914 | 89.23902 |
| 12:23 | 11/24 | 89.92513 | 57.97272 | 88.55602 |
| 13:23 | 11/24 | 89.23902 | 60.08382 | 88.55602 |
| 14:23 | 11/24 | 87.87601 | 62.11511 | 88.55602 |
| 15:23 | 11/24 | 85.18382 | 66.6056  | 87.19887 |
| 16:23 | 11/24 | 82.53136 | 70.25244 | 85.85289 |
| 17:23 | 11/24 | 81.21815 | 75.7299  | 84.5172  |
| 18:23 | 11/24 | 80.56445 | 76.56169 | 83.1911  |
| 19:23 | 11/24 | 80.56445 | 77.4371  | 82.53136 |
| 20:23 | 11/24 | 80.56445 | 78.36076 | 82.53136 |
| 21:23 | 11/24 | 80.56445 | 78.36076 | 81.87376 |
| 22:23 | 11/24 | 80.56445 | 77.4371  | 81.87376 |
| 23:23 | 11/24 | 81.21815 | 76.56169 | 81.87376 |
| 00:23 | 11/25 | 81.21815 | 78.36076 | 81.21815 |
| 01:23 | 11/25 | 80.56445 | 77.4371  | 81.21815 |
| 02:23 | 11/25 | 74.75327 | 100      | 80.56445 |
| 03:23 | 11/25 | 75.39355 | 100      | 79.91257 |
| 04:23 | 11/25 | 75.39355 | 100      | 79.91257 |
| 05:23 | 11/25 | 76.03503 | 99.76005 | 79.26248 |
| 06:23 | 11/25 | 77.32169 | 99.76005 | 78.614   |
| 07:23 | 11/25 | 78.614   | 99.76005 | 81.87376 |
| 08:23 | 11/25 | 79.91257 | 99.76005 | 81.87376 |
| 09:23 | 11/25 | 79.91257 | 99.76005 | 80.56445 |
| 10:23 | 11/25 | 77.32169 | 99.76005 | 83.1911  |
| 11:23 | 11/25 | 79.91257 | 99.76005 | 81.87376 |
| 12:23 | 11/25 | 79.91257 | 96.87523 | 81.87376 |
| 13:23 | 11/25 | 79.91257 | 94.36807 | 82.53136 |
| 14:23 | 11/25 | 78.614   | 94.36807 | 81.87376 |
| 15:23 | 11/25 | 77.96712 | 94.36807 | 81.21815 |
| 16:23 | 11/25 | 77.96712 | 94.36807 | 80.56445 |
| 17:23 | 11/25 | 76.6777  | 94.36807 | 79.91257 |
| 18:23 | 11/25 | 76.6777  | 96.87523 | 79.26248 |
| 19:23 | 11/25 | 76.6777  | 96.87523 | 79.26248 |
| 20:23 | 11/25 | 75.39355 | 96.87523 | 78.614   |
| 21:23 | 11/25 | 74.11402 | 96.87523 | 77.32169 |
| 22:23 | 11/25 | 74.11402 | 96.87523 | 77.32169 |
| 23:23 | 11/25 | 73.4758  | 96.87523 | 77.32169 |
| 00:23 | 11/26 | 73.4758  | 96.87523 | 76.6777  |
| 01:23 | 11/26 | 73.4758  | 99.76005 | 76.6777  |
| 02:23 | 11/26 | 72.83846 | 99.76005 | 76.03503 |
| 03:23 | 11/26 | 72.83846 | 99.76005 | 76.03503 |
| 04:23 | 11/26 | 73.4758  | 99.76005 | 75.39355 |
| 05:23 | 11/26 | 74.75327 | 99.76005 | 76.03503 |
| 06:23 | 11/26 | 75.39355 | 99.76005 | 76.03503 |
| 07:23 | 11/26 | 79.91257 | 99.76005 | 77.96712 |
| 08:23 | 11/26 | 76.03503 | 99.76005 | 77.96712 |
| 09:23 | 11/26 | 75.39355 | 99.76005 | 77.96712 |
| 10:23 | 11/26 | 76.6777  | 96.87523 | 77.96712 |
| 11:23 | 11/26 | 75.39355 | 99.76005 | 77.96712 |
| 12:23 | 11/26 | 73.4758  | 96.87523 | 76.6777  |
| 13:23 | 11/26 | 75.39355 | 94.36807 | 76.6777  |
| 14:23 | 11/26 | 74.11402 | 94.36807 | 76.03503 |
| 15:23 | 11/26 | 76.03503 | 94.36807 | 76.6777  |
| 16:23 | 11/26 | 75.39355 | 96.87523 | 76.6777  |

|       |       |          |          |          |
|-------|-------|----------|----------|----------|
| 17:23 | 11/26 | 75.39355 | 96.87523 | 76.03503 |
| 18:23 | 11/26 | 74.75327 | 96.87523 | 76.03503 |
| 19:23 | 11/26 | 74.75327 | 96.87523 | 76.03503 |
| 20:23 | 11/26 | 74.75327 | 96.87523 | 76.03503 |
| 21:23 | 11/26 | 74.11402 | 96.87523 | 76.03503 |
| 22:23 | 11/26 | 73.4758  | 96.87523 | 75.39355 |
| 23:23 | 11/26 | 72.83846 | 96.87523 | 75.39355 |
| 00:23 | 11/27 | 72.83846 | 96.87523 | 74.75327 |
| 01:23 | 11/27 | 72.83846 | 96.87523 | 74.75327 |
| 02:23 | 11/27 | 72.83846 | 96.87523 | 74.75327 |
| 03:23 | 11/27 | 72.83846 | 96.87523 | 74.11402 |
| 04:23 | 11/27 | 72.83846 | 96.87523 | 74.11402 |
| 05:23 | 11/27 | 76.6777  | 96.87523 | 74.75327 |
| 06:23 | 11/27 | 89.23902 | 96.87523 | 79.26248 |
| 07:23 | 11/27 | 91.30706 | 96.87523 | 83.85301 |
| 08:23 | 11/27 | 92.70279 | 94.36807 | 87.87601 |
| 09:23 | 11/27 | 96.25862 | 83.92931 | 89.92513 |
| 10:23 | 11/27 | 96.25862 | 59.7668  | 91.30706 |
| 11:23 | 11/27 | 96.25862 | 48.32296 | 91.30706 |
| 12:23 | 11/27 | 94.82423 | 48.32296 | 91.30706 |
| 13:23 | 11/27 | 92.00314 | 51.25471 | 91.30706 |
| 14:23 | 11/27 | 77.96712 | 92.15649 | 87.19887 |
| 15:23 | 11/27 | 77.96712 | 96.87523 | 83.1911  |
| 16:23 | 11/27 | 77.96712 | 96.87523 | 83.1911  |
| 17:23 | 11/27 | 77.32169 | 94.36807 | 82.53136 |
| 18:23 | 11/27 | 77.96712 | 94.36807 | 81.87376 |
| 19:23 | 11/27 | 77.96712 | 94.36807 | 81.21815 |
| 20:23 | 11/27 | 77.96712 | 94.36807 | 80.56445 |
| 21:23 | 11/27 | 77.96712 | 94.36807 | 80.56445 |
| 22:23 | 11/27 | 78.614   | 92.15649 | 79.91257 |
| 23:23 | 11/27 | 78.614   | 92.15649 | 79.91257 |
| 00:23 | 11/28 | 77.96712 | 90.18186 | 79.91257 |
| 01:23 | 11/28 | 77.96712 | 90.18186 | 79.26248 |
| 02:23 | 11/28 | 76.03503 | 92.15649 | 79.26248 |
| 03:23 | 11/28 | 75.39355 | 92.15649 | 78.614   |
| 04:23 | 11/28 | 74.75327 | 92.15649 | 77.96712 |
| 05:23 | 11/28 | 77.32169 | 92.15649 | 77.96712 |
| 06:23 | 11/28 | 84.5172  | 88.40101 | 80.56445 |
| 07:23 | 11/28 | 87.87601 | 65.69533 | 83.1911  |
| 08:23 | 11/28 | 89.92513 | 57.41133 | 85.18382 |
| 09:23 | 11/28 | 92.70279 | 52.52826 | 86.52454 |
| 10:23 | 11/28 | 92.70279 | 51.88293 | 87.19887 |
| 11:23 | 11/28 | 79.91257 | 94.36807 | 84.5172  |
| 12:23 | 11/28 | 83.85301 | 94.36807 | 84.5172  |
| 13:23 | 11/28 | 87.19887 | 81.48016 | 85.85289 |
| 14:23 | 11/28 | 87.87601 | 65.69533 | 86.52454 |
| 15:23 | 11/28 | 84.5172  | 68.07155 | 85.85289 |
| 16:23 | 11/28 | 81.87376 | 74.93769 | 84.5172  |
| 17:23 | 11/28 | 80.56445 | 74.93769 | 83.1911  |
| 18:23 | 11/28 | 80.56445 | 76.56169 | 82.53136 |
| 19:23 | 11/28 | 80.56445 | 75.7299  | 81.87376 |
| 20:23 | 11/28 | 80.56445 | 76.56169 | 81.21815 |
| 21:23 | 11/28 | 80.56445 | 76.56169 | 81.21815 |
| 22:23 | 11/28 | 80.56445 | 76.56169 | 80.56445 |
| 23:23 | 11/28 | 80.56445 | 76.56169 | 80.56445 |
| 00:23 | 11/29 | 79.91257 | 76.56169 | 80.56445 |
| 01:23 | 11/29 | 79.26248 | 76.56169 | 79.91257 |
| 02:23 | 11/29 | 78.614   | 76.56169 | 79.91257 |
| 03:23 | 11/29 | 76.03503 | 82.66124 | 79.26248 |

|       |       |          |          |          |
|-------|-------|----------|----------|----------|
| 04:23 | 11/29 | 74.75327 | 86.78126 | 78.614   |
| 05:23 | 11/29 | 77.32169 | 86.78126 | 77.96712 |
| 06:23 | 11/29 | 84.5172  | 70.84579 | 79.91257 |
| 07:23 | 11/29 | 89.92513 | 59.45527 | 83.1911  |
| 08:23 | 11/29 | 92.00314 | 54.11012 | 85.85289 |
| 09:23 | 11/29 | 81.87376 | 76.56169 | 85.18382 |
| 10:23 | 11/29 | 80.56445 | 82.66124 | 83.85301 |
| 11:23 | 11/29 | 89.23902 | 58.25986 | 85.18382 |
| 12:23 | 11/29 | 90.61443 | 57.68994 | 85.85289 |
| 13:23 | 11/29 | 89.23902 | 57.97272 | 86.52454 |
| 14:23 | 11/29 | 87.19887 | 60.08382 | 86.52454 |
| 15:23 | 11/29 | 85.18382 | 64.41625 | 86.52454 |



TIME INTERVAL: 30 MINUTES

UNITS: °F

GRAPH TITLEDODIC: C787

BACKUP TIME/DATE: 18:54:01 03/14-1994

NUMBER OF READINGS: 6826

PROBE LOCATION: Top of Pallet

| TIME  | DATE  | Temp.    | Humidity | Ext. Temp. |
|-------|-------|----------|----------|------------|
| 02:24 | 11/14 | 107.6524 | 44.95818 | 104.4887   |
| 03:24 | 11/14 | 112.6098 | 37.21098 | 109.2748   |
| 04:24 | 11/14 | 113.4638 | 34.26041 | 110.9267   |
| 05:24 | 11/14 | 115.198  | 32.96125 | 111.7642   |
| 06:24 | 11/14 | 114.3264 | 33.33919 | 109.2748   |
| 07:24 | 11/14 | 110.9267 | 35.67744 | 104.4887   |
| 08:24 | 11/14 | 104.4887 | 40.9878  | 98.44294   |
| 09:24 | 11/14 | 94.11318 | 57.13676 | 89.23902   |
| 10:24 | 11/14 | 81.21815 | 79.33809 | 82.53136   |
| 11:24 | 11/14 | 78.614   | 86.78126 | 79.91257   |
| 12:24 | 11/14 | 77.32169 | 90.18186 | 79.26248   |
| 13:24 | 11/14 | 77.32169 | 92.15649 | 78.614     |
| 14:24 | 11/14 | 77.32169 | 92.15649 | 79.26248   |
| 15:24 | 11/14 | 77.32169 | 92.15649 | 78.614     |
| 16:24 | 11/14 | 77.32169 | 92.15649 | 78.614     |
| 17:24 | 11/14 | 77.32169 | 92.15649 | 78.614     |
| 18:24 | 11/14 | 76.6777  | 92.15649 | 77.96712   |
| 19:24 | 11/14 | 76.6777  | 92.15649 | 77.96712   |
| 20:24 | 11/14 | 76.6777  | 92.15649 | 77.96712   |
| 21:24 | 11/14 | 75.39355 | 94.36807 | 77.32169   |
| 22:24 | 11/14 | 75.39355 | 94.36807 | 76.6777    |
| 23:24 | 11/14 | 79.26248 | 92.15649 | 79.91257   |
| 00:24 | 11/15 | 91.30706 | 68.07155 | 93.40607   |
| 01:24 | 11/15 | 100.6701 | 51.88293 | 102.1807   |
| 02:24 | 11/15 | 109.2748 | 41.63966 | 111.7642   |
| 03:24 | 11/15 | 117.8689 | 34.97659 | 118.7792   |
| 04:24 | 11/15 | 116.9689 | 34.79909 | 116.9689   |
| 05:24 | 11/15 | 116.0787 | 34.79909 | 113.4638   |
| 06:24 | 11/15 | 111.7642 | 36.70545 | 109.2748   |
| 07:24 | 11/15 | 110.097  | 40.33672 | 106.0576   |
| 08:24 | 11/15 | 104.4887 | 47.2272  | 99.1804    |
| 09:24 | 11/15 | 91.30706 | 67.08004 | 89.23902   |
| 10:24 | 11/15 | 80.56445 | 86.78126 | 82.53136   |
| 11:24 | 11/15 | 78.614   | 92.15649 | 79.91257   |
| 12:24 | 11/15 | 77.96712 | 92.15649 | 79.26248   |
| 13:24 | 11/15 | 77.96712 | 92.15649 | 79.26248   |
| 14:24 | 11/15 | 77.96712 | 92.15649 | 79.26248   |
| 15:24 | 11/15 | 77.96712 | 94.36807 | 78.614     |
| 16:24 | 11/15 | 77.32169 | 94.36807 | 78.614     |
| 17:24 | 11/15 | 76.6777  | 94.36807 | 77.96712   |
| 18:24 | 11/15 | 77.32169 | 94.36807 | 77.96712   |
| 19:24 | 11/15 | 76.6777  | 96.87523 | 77.96712   |
| 20:24 | 11/15 | 75.39355 | 96.87523 | 76.6777    |
| 21:24 | 11/15 | 75.39355 | 96.87523 | 76.6777    |
| 22:24 | 11/15 | 76.03503 | 96.87523 | 77.32169   |
| 23:24 | 11/15 | 77.96712 | 94.36807 | 79.26248   |
| 00:24 | 11/16 | 87.87601 | 76.56169 | 89.92513   |
| 01:24 | 11/16 | 99.92271 | 54.58424 | 101.4227   |
| 02:24 | 11/16 | 107.6524 | 46.69209 | 110.9267   |
| 03:24 | 11/16 | 116.9689 | 35.67744 | 122.5289   |

|       |       |          |          |          |
|-------|-------|----------|----------|----------|
| 04:24 | 11/16 | 118.7792 | 33.52602 | 123.4955 |
| 05:24 | 11/16 | 115.198  | 34.79909 | 117.8689 |
| 06:24 | 11/16 | 113.4638 | 36.02293 | 114.3264 |
| 07:24 | 11/16 | 108.46   | 38.70332 | 106.8517 |
| 08:24 | 11/16 | 103.7135 | 43.94685 | 102.1807 |
| 09:24 | 11/16 | 93.40607 | 61.41159 | 90.61443 |
| 10:24 | 11/16 | 80.56445 | 85.29733 | 82.53136 |
| 11:24 | 11/16 | 78.614   | 90.18186 | 79.91257 |
| 12:24 | 11/16 | 78.614   | 92.15649 | 79.26248 |
| 13:24 | 11/16 | 78.614   | 94.36807 | 79.26248 |
| 14:24 | 11/16 | 77.96712 | 94.36807 | 78.614   |
| 15:24 | 11/16 | 77.32169 | 96.87523 | 78.614   |
| 16:24 | 11/16 | 77.32169 | 96.87523 | 77.96712 |
| 17:24 | 11/16 | 77.32169 | 96.87523 | 77.96712 |
| 18:24 | 11/16 | 76.6777  | 96.87523 | 77.96712 |
| 19:24 | 11/16 | 77.32169 | 96.87523 | 77.96712 |
| 20:24 | 11/16 | 77.32169 | 96.87523 | 77.96712 |
| 21:24 | 11/16 | 77.32169 | 96.87523 | 77.96712 |
| 22:24 | 11/16 | 77.32169 | 96.87523 | 77.96712 |
| 23:24 | 11/16 | 79.91257 | 92.15649 | 81.21815 |
| 00:24 | 11/17 | 87.19887 | 78.36076 | 89.92513 |
| 01:24 | 11/17 | 102.1807 | 54.34584 | 109.2748 |
| 02:24 | 11/17 | 108.46   | 45.64351 | 115.198  |
| 03:24 | 11/17 | 107.6524 | 42.95114 | 112.6098 |
| 04:24 | 11/17 | 117.8689 | 35.32877 | 122.5289 |
| 05:24 | 11/17 | 116.9689 | 34.44104 | 121.5744 |
| 06:24 | 11/17 | 113.4638 | 35.67744 | 114.3264 |
| 07:24 | 11/17 | 110.097  | 38.70332 | 106.8517 |
| 08:24 | 11/17 | 103.7135 | 45.47123 | 100.6701 |
| 09:24 | 11/17 | 92.00314 | 66.14427 | 89.23902 |
| 10:24 | 11/17 | 81.21815 | 85.29733 | 82.53136 |
| 11:24 | 11/17 | 78.614   | 92.15649 | 79.91257 |
| 12:24 | 11/17 | 78.614   | 92.15649 | 79.26248 |
| 13:24 | 11/17 | 77.96712 | 94.36807 | 79.26248 |
| 14:24 | 11/17 | 77.96712 | 94.36807 | 78.614   |
| 15:24 | 11/17 | 77.32169 | 94.36807 | 78.614   |
| 16:24 | 11/17 | 77.32169 | 94.36807 | 78.614   |
| 17:24 | 11/17 | 77.32169 | 94.36807 | 77.96712 |
| 18:24 | 11/17 | 76.03503 | 94.36807 | 77.32169 |
| 19:24 | 11/17 | 74.75327 | 99.76005 | 76.03503 |
| 20:24 | 11/17 | 76.03503 | 99.76005 | 76.6777  |
| 21:24 | 11/17 | 76.03503 | 96.87523 | 76.6777  |
| 22:24 | 11/17 | 75.39355 | 96.87523 | 76.6777  |
| 23:24 | 11/17 | 78.614   | 96.87523 | 79.26248 |
| 00:24 | 11/18 | 90.61443 | 72.76552 | 94.82423 |
| 01:24 | 11/18 | 102.1807 | 53.41817 | 106.0576 |
| 02:24 | 11/18 | 110.9267 | 43.94685 | 116.9689 |
| 03:24 | 11/18 | 116.9689 | 36.53579 | 123.4955 |
| 04:24 | 11/18 | 116.0787 | 35.85057 | 121.5744 |
| 05:24 | 11/18 | 115.198  | 35.85057 | 120.6315 |
| 06:24 | 11/18 | 111.7642 | 37.21098 | 115.198  |
| 07:24 | 11/18 | 111.7642 | 38.70332 | 111.7642 |
| 08:24 | 11/18 | 104.4887 | 44.45026 | 101.4227 |
| 09:24 | 11/18 | 93.40607 | 62.84837 | 90.61443 |
| 10:24 | 11/18 | 81.21815 | 86.78126 | 82.53136 |
| 11:24 | 11/18 | 78.614   | 92.15649 | 79.91257 |
| 12:24 | 11/18 | 77.96712 | 94.36807 | 79.26248 |
| 13:24 | 11/18 | 77.96712 | 94.36807 | 79.26248 |
| 14:24 | 11/18 | 78.614   | 94.36807 | 79.26248 |

|       |       |          |          |          |
|-------|-------|----------|----------|----------|
| 15:24 | 11/18 | 77.96712 | 94.36807 | 79.26248 |
| 16:24 | 11/18 | 77.96712 | 94.36807 | 78.614   |
| 17:24 | 11/18 | 77.96712 | 94.36807 | 78.614   |
| 18:24 | 11/18 | 77.96712 | 94.36807 | 78.614   |
| 19:24 | 11/18 | 77.32169 | 96.87523 | 77.96712 |
| 20:24 | 11/18 | 77.96712 | 96.87523 | 78.614   |
| 21:24 | 11/18 | 76.6777  | 96.87523 | 77.32169 |
| 22:24 | 11/18 | 77.96712 | 96.87523 | 78.614   |
| 23:24 | 11/18 | 80.56445 | 92.15649 | 81.21815 |
| 00:24 | 11/19 | 92.00314 | 70.84579 | 96.25862 |
| 01:24 | 11/19 | 103.7135 | 53.64637 | 110.9267 |
| 02:24 | 11/19 | 112.6098 | 42.12989 | 121.5744 |
| 03:24 | 11/19 | 115.198  | 38.86746 | 121.5744 |
| 04:24 | 11/19 | 117.8689 | 35.67744 | 121.5744 |
| 05:24 | 11/19 | 116.0787 | 35.50352 | 116.9689 |
| 06:24 | 11/19 | 115.198  | 36.19456 | 114.3264 |
| 07:24 | 11/19 | 110.9267 | 38.5389  | 106.8517 |
| 08:24 | 11/19 | 104.4887 | 46.16444 | 97.7103  |
| 09:24 | 11/19 | 94.11318 | 63.6143  | 89.23902 |
| 10:24 | 11/19 | 80.56445 | 88.40101 | 81.87376 |
| 11:24 | 11/19 | 78.614   | 94.36807 | 79.91257 |
| 12:24 | 11/19 | 79.26248 | 94.36807 | 79.91257 |
| 13:24 | 11/19 | 77.96712 | 94.36807 | 79.26248 |
| 14:24 | 11/19 | 77.96712 | 94.36807 | 79.26248 |
| 15:24 | 11/19 | 77.96712 | 94.36807 | 78.614   |
| 16:24 | 11/19 | 78.614   | 94.36807 | 79.26248 |
| 17:24 | 11/19 | 77.96712 | 94.36807 | 78.614   |
| 18:24 | 11/19 | 77.96712 | 94.36807 | 78.614   |
| 19:24 | 11/19 | 79.26248 | 92.15649 | 79.91257 |
| 20:24 | 11/19 | 78.614   | 92.15649 | 79.26248 |
| 21:24 | 11/19 | 78.614   | 94.36807 | 79.26248 |
| 22:24 | 11/19 | 77.32169 | 96.87523 | 77.96712 |
| 23:24 | 11/19 | 79.91257 | 94.36807 | 80.56445 |
| 00:24 | 11/20 | 85.18382 | 81.48016 | 86.52454 |
| 01:24 | 11/20 | 99.92271 | 58.5515  | 103.7135 |
| 02:24 | 11/20 | 110.9267 | 43.61345 | 115.198  |
| 03:24 | 11/20 | 116.0787 | 38.3742  | 116.0787 |
| 04:24 | 11/20 | 117.8689 | 35.67744 | 116.9689 |
| 05:24 | 11/20 | 117.8689 | 34.62059 | 113.4638 |
| 06:24 | 11/20 | 113.4638 | 37.04302 | 106.8517 |
| 07:24 | 11/20 | 112.6098 | 38.3742  | 104.4887 |
| 08:24 | 11/20 | 104.4887 | 47.04795 | 96.25862 |
| 09:24 | 11/20 | 95.53933 | 61.7598  | 89.23902 |
| 10:24 | 11/20 | 81.21815 | 88.40101 | 82.53136 |
| 11:24 | 11/20 | 79.26248 | 94.36807 | 80.56445 |
| 12:24 | 11/20 | 78.614   | 94.36807 | 80.56445 |
| 13:24 | 11/20 | 79.26248 | 94.36807 | 80.56445 |
| 14:24 | 11/20 | 79.26248 | 94.36807 | 80.56445 |
| 15:24 | 11/20 | 78.614   | 94.36807 | 79.91257 |
| 16:24 | 11/20 | 78.614   | 96.87523 | 79.91257 |
| 17:24 | 11/20 | 78.614   | 96.87523 | 79.26248 |
| 18:24 | 11/20 | 78.614   | 96.87523 | 79.91257 |
| 19:24 | 11/20 | 77.96712 | 96.87523 | 79.26248 |
| 20:24 | 11/20 | 77.96712 | 96.87523 | 79.26248 |
| 21:24 | 11/20 | 76.6777  | 96.87523 | 78.614   |
| 22:24 | 11/20 | 77.96712 | 96.87523 | 79.26248 |
| 23:24 | 11/20 | 79.91257 | 94.36807 | 81.21815 |
| 00:24 | 11/21 | 86.52454 | 83.92931 | 87.19887 |
| 01:24 | 11/21 | 104.4887 | 52.96879 | 106.0576 |

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| 02:24 | 11/21 | 111.7642 | 42.62188 | 110.9267 |
| 03:24 | 11/21 | 115.198  | 39.8481  | 112.6098 |
| 04:24 | 11/21 | 116.0787 | 38.20918 | 111.7642 |
| 05:24 | 11/21 | 115.198  | 37.71197 | 110.097  |
| 06:24 | 11/21 | 114.3264 | 38.86746 | 108.46   |
| 07:24 | 11/21 | 108.46   | 43.77995 | 102.9443 |
| 08:24 | 11/21 | 102.1807 | 52.31115 | 96.25862 |
| 09:24 | 11/21 | 92.70279 | 70.84579 | 88.55602 |
| 10:24 | 11/21 | 82.53136 | 88.40101 | 83.85301 |
| 11:24 | 11/21 | 79.91257 | 94.36807 | 81.21815 |
| 12:24 | 11/21 | 79.91257 | 96.87523 | 81.21815 |
| 13:24 | 11/21 | 79.26248 | 96.87523 | 80.56445 |
| 14:24 | 11/21 | 79.91257 | 96.87523 | 81.21815 |
| 15:24 | 11/21 | 79.91257 | 96.87523 | 81.21815 |
| 16:24 | 11/21 | 79.91257 | 96.87523 | 80.56445 |
| 17:24 | 11/21 | 79.91257 | 96.87523 | 80.56445 |
| 18:24 | 11/21 | 77.96712 | 94.36807 | 78.614   |
| 19:24 | 11/21 | 77.32169 | 96.87523 | 77.96712 |
| 20:24 | 11/21 | 76.6777  | 99.76005 | 77.96712 |
| 21:24 | 11/21 | 76.6777  | 94.36807 | 77.32169 |
| 22:24 | 11/21 | 96.98219 | 86.78126 | 99.1804  |
| 23:24 | 11/21 | 103.7135 | 59.45527 | 101.4227 |
| 00:24 | 11/22 | 104.4887 | 40.17392 | 99.1804  |
| 01:24 | 11/22 | 116.0787 | 32.18649 | 107.6524 |
| 02:24 | 11/22 | 99.1804  | 40.17392 | 95.53933 |
| 03:24 | 11/22 | 110.9267 | 35.15313 | 99.92271 |
| 04:24 | 11/22 | 102.9443 | 40.01105 | 93.40607 |
| 05:24 | 11/22 | 84.5172  | 60.73526 | 83.85301 |
| 06:24 | 11/22 | 78.614   | 82.66124 | 79.91257 |
| 07:24 | 11/22 | 77.32169 | 88.40101 | 79.26248 |
| 08:24 | 11/22 | 77.32169 | 92.15649 | 79.26248 |
| 09:24 | 11/22 | 77.96712 | 92.15649 | 79.26248 |
| 10:24 | 11/22 | 77.96712 | 90.18186 | 79.26248 |
| 11:24 | 11/22 | 78.614   | 90.18186 | 79.26248 |
| 12:24 | 11/22 | 78.614   | 90.18186 | 79.26248 |
| 13:24 | 11/22 | 76.6777  | 94.36807 | 77.96712 |
| 14:24 | 11/22 | 76.03503 | 96.87523 | 77.32169 |
| 15:24 | 11/22 | 76.6777  | 99.76005 | 77.96712 |
| 16:24 | 11/22 | 107.6524 | 99.76005 | 114.3264 |
| 17:24 | 11/22 | 120.6315 | 39.35855 | 121.5744 |
| 18:24 | 11/22 | 118.7792 | 24.21086 | 116.9689 |
| 19:24 | 11/22 | 131.7199 | 19.46384 | 128.5256 |
| 20:24 | 11/22 | 119.6999 | 27.74196 | 111.7642 |
| 21:24 | 11/22 | 122.5289 | 21.91444 | 116.0787 |
| 22:24 | 11/22 | 116.0787 | 24.87717 | 105.27   |
| 23:24 | 11/22 | 112.6098 | 27.21833 | 102.9443 |
| 00:24 | 11/23 | 79.26248 | 74.18155 | 80.56445 |
| 01:24 | 11/23 | 76.03503 | 96.87523 | 80.56445 |
| 02:24 | 11/23 | 76.03503 | 96.87523 | 78.614   |
| 03:24 | 11/23 | 75.39355 | 99.76005 | 77.96712 |
| 04:24 | 11/23 | 74.11402 | 99.76005 | 79.26248 |
| 05:24 | 11/23 | 74.11402 | 99.76005 | 80.56445 |
| 06:24 | 11/23 | 74.75327 | 99.76005 | 80.56445 |
| 07:24 | 11/23 | 76.03503 | 99.76005 | 80.56445 |
| 08:24 | 11/23 | 75.39355 | 99.76005 | 78.614   |
| 09:24 | 11/23 | 76.6777  | 99.76005 | 79.91257 |
| 10:24 | 11/23 | 76.03503 | 99.76005 | 79.26248 |
| 11:24 | 11/23 | 75.39355 | 99.76005 | 77.32169 |
| 12:24 | 11/23 | 73.4758  | 99.76005 | 76.03503 |

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| 13:24 | 11/23 | 72.83846 | 99.76005 | 75.39355 |
| 14:24 | 11/23 | 77.96712 | 100      | 83.1911  |
| 15:24 | 11/23 | 94.82423 | 92.15649 | 100.6701 |
| 16:24 | 11/23 | 111.7642 | 34.62059 | 111.7642 |
| 17:24 | 11/23 | 115.198  | 28.4922  | 112.6098 |
| 18:24 | 11/23 | 121.5744 | 24.54902 | 116.9689 |
| 19:24 | 11/23 | 100.6701 | 47.77055 | 96.98219 |
| 20:24 | 11/23 | 97.7103  | 99.76005 | 92.70279 |
| 21:24 | 11/23 | 109.2748 | 54.8254  | 99.92271 |
| 22:24 | 11/23 | 99.92271 | 46.33954 | 92.70279 |
| 23:24 | 11/23 | 83.85301 | 66.6056  | 85.18382 |
| 00:24 | 11/24 | 79.26248 | 82.66124 | 81.87376 |
| 01:24 | 11/24 | 77.96712 | 86.78126 | 81.21815 |
| 02:24 | 11/24 | 78.614   | 86.78126 | 80.56445 |
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| 04:24 | 11/24 | 77.96712 | 88.40101 | 79.91257 |
| 05:24 | 11/24 | 77.96712 | 88.40101 | 79.91257 |
| 06:24 | 11/24 | 77.96712 | 90.18186 | 79.91257 |
| 07:24 | 11/24 | 77.96712 | 90.18186 | 79.91257 |
| 08:24 | 11/24 | 77.96712 | 90.18186 | 79.91257 |
| 09:24 | 11/24 | 77.32169 | 92.15649 | 79.26248 |
| 10:24 | 11/24 | 77.96712 | 92.15649 | 79.91257 |
| 11:24 | 11/24 | 77.96712 | 90.18186 | 79.26248 |
| 12:24 | 11/24 | 76.03503 | 96.87523 | 77.96712 |
| 13:24 | 11/24 | 89.23902 | 67.08004 | 91.30706 |
| 14:24 | 11/24 | 101.4227 | 46.69209 | 101.4227 |
| 15:24 | 11/24 | 110.097  | 32.96125 | 107.6524 |
| 16:24 | 11/24 | 115.198  | 28.97173 | 111.7642 |
| 17:24 | 11/24 | 116.0787 | 27.21833 | 110.9267 |
| 18:24 | 11/24 | 116.0787 | 26.39167 | 110.097  |
| 19:24 | 11/24 | 118.7792 | 24.87717 | 110.097  |
| 20:24 | 11/24 | 93.40607 | 46.16444 | 92.70279 |
| 21:24 | 11/24 | 108.46   | 37.37845 | 100.6701 |
| 22:24 | 11/24 | 98.44294 | 44.28199 | 92.00314 |
| 23:24 | 11/24 | 85.18382 | 66.6056  | 85.85289 |
| 00:24 | 11/25 | 79.26248 | 83.92931 | 81.87376 |
| 01:24 | 11/25 | 78.614   | 86.78126 | 81.21815 |
| 02:24 | 11/25 | 78.614   | 88.40101 | 80.56445 |
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| 04:24 | 11/25 | 78.614   | 85.29733 | 80.56445 |
| 05:24 | 11/25 | 79.26248 | 85.29733 | 80.56445 |
| 06:24 | 11/25 | 79.26248 | 83.92931 | 80.56445 |
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| 08:24 | 11/25 | 79.26248 | 83.92931 | 80.56445 |
| 09:24 | 11/25 | 76.6777  | 88.40101 | 78.614   |
| 10:24 | 11/25 | 74.75327 | 94.36807 | 76.6777  |
| 11:24 | 11/25 | 74.11402 | 96.87523 | 76.03503 |
| 12:24 | 11/25 | 75.39355 | 96.87523 | 77.32169 |
| 13:24 | 11/25 | 87.87601 | 67.08004 | 90.61443 |
| 14:24 | 11/25 | 102.1807 | 42.12989 | 102.9443 |
| 15:24 | 11/25 | 111.7642 | 31.17652 | 109.2748 |
| 16:24 | 11/25 | 115.198  | 26.67318 | 110.9267 |
| 17:24 | 11/25 | 117.8689 | 24.54902 | 112.6098 |
| 18:24 | 11/25 | 117.8689 | 23.50096 | 110.097  |
| 19:24 | 11/25 | 116.0787 | 23.50096 | 107.6524 |
| 20:24 | 11/25 | 113.4638 | 24.87717 | 103.7135 |
| 21:24 | 11/25 | 110.097  | 27.48268 | 99.1804  |
| 22:24 | 11/25 | 99.92271 | 37.21098 | 92.70279 |
| 23:24 | 11/25 | 83.1911  | 66.14427 | 84.5172  |

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| 00:24 | 11/26 | 79.26248 | 78.36076 | 81.87376 |
| 01:24 | 11/26 | 79.26248 | 80.3754  | 81.21815 |
| 02:24 | 11/26 | 79.26248 | 81.48016 | 81.21815 |
| 03:24 | 11/26 | 79.26248 | 82.66124 | 81.21815 |
| 04:24 | 11/26 | 79.26248 | 83.92931 | 81.21815 |
| 05:24 | 11/26 | 78.614   | 82.66124 | 80.56445 |
| 06:24 | 11/26 | 79.26248 | 82.66124 | 81.21815 |
| 07:24 | 11/26 | 79.91257 | 80.3754  | 81.21815 |
| 08:24 | 11/26 | 79.91257 | 80.3754  | 81.21815 |
| 09:24 | 11/26 | 76.6777  | 99.76005 | 76.6777  |
| 10:24 | 11/26 | 76.03503 | 99.76005 | 76.6777  |
| 11:24 | 11/26 | 75.39355 | 99.76005 | 75.39355 |
| 12:24 | 11/26 | 85.85289 | 80.3754  | 84.5172  |
| 13:24 | 11/26 | 85.18382 | 74.18155 | 84.5172  |
| 14:24 | 11/26 | 80.56445 | 73.4584  | 81.87376 |
| 15:24 | 11/26 | 77.96712 | 79.33809 | 79.26248 |
| 16:24 | 11/26 | 76.03503 | 83.92931 | 78.614   |
| 17:24 | 11/26 | 76.6777  | 86.78126 | 77.96712 |
| 18:24 | 11/26 | 76.6777  | 85.29733 | 78.614   |
| 19:24 | 11/26 | 74.75327 | 99.76005 | 76.03503 |
| 20:24 | 11/26 | 74.11402 | 99.76005 | 75.39355 |
| 21:24 | 11/26 | 73.4758  | 99.76005 | 74.75327 |
| 22:24 | 11/26 | 72.83846 | 99.76005 | 74.11402 |
| 23:24 | 11/26 | 73.4758  | 99.76005 | 74.75327 |
| 00:24 | 11/27 | 73.4758  | 99.76005 | 74.11402 |
| 01:24 | 11/27 | 72.83846 | 99.76005 | 74.11402 |
| 02:24 | 11/27 | 72.83846 | 99.76005 | 74.11402 |
| 03:24 | 11/27 | 74.11402 | 99.76005 | 75.39355 |
| 04:24 | 11/27 | 74.75327 | 99.76005 | 76.03503 |
| 05:24 | 11/27 | 77.32169 | 99.76005 | 78.614   |
| 06:24 | 11/27 | 82.53136 | 90.18186 | 82.53136 |
| 07:24 | 11/27 | 77.96712 | 96.87523 | 79.26248 |
| 08:24 | 11/27 | 112.6098 | 86.78126 | 114.3264 |
| 09:24 | 11/27 | 122.5289 | 15.99794 | 118.7792 |
| 10:24 | 11/27 | 121.5744 | 13.99873 | 114.3264 |
| 11:24 | 11/27 | 120.6315 | 13.99873 | 114.3264 |
| 12:24 | 11/27 | 118.7792 | 13.99873 | 109.2748 |
| 13:24 | 11/27 | 113.4638 | 16.82424 | 102.9443 |
| 14:24 | 11/27 | 78.614   | 77.4371  | 78.614   |
| 15:24 | 11/27 | 81.87376 | 99.76005 | 82.53136 |
| 16:24 | 11/27 | 78.614   | 99.76005 | 80.56445 |
| 17:24 | 11/27 | 76.6777  | 99.76005 | 79.26248 |
| 18:24 | 11/27 | 76.6777  | 99.76005 | 80.56445 |
| 19:24 | 11/27 | 77.32169 | 99.76005 | 81.21815 |
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| 22:24 | 11/27 | 77.32169 | 99.76005 | 81.21815 |
| 23:24 | 11/27 | 77.32169 | 99.76005 | 81.21815 |
| 00:24 | 11/28 | 77.96712 | 99.76005 | 81.21815 |
| 01:24 | 11/28 | 76.6777  | 99.76005 | 79.91257 |
| 02:24 | 11/28 | 75.39355 | 99.76005 | 77.96712 |
| 03:24 | 11/28 | 74.11402 | 99.76005 | 76.6777  |
| 04:24 | 11/28 | 74.11402 | 99.76005 | 76.6777  |
| 05:24 | 11/28 | 77.32169 | 99.76005 | 79.91257 |
| 06:24 | 11/28 | 87.87601 | 96.87523 | 92.00314 |
| 07:24 | 11/28 | 94.82423 | 81.48016 | 94.11318 |
| 08:24 | 11/28 | 104.4887 | 27.21833 | 100.6701 |
| 09:24 | 11/28 | 112.6098 | 19.46384 | 108.46   |
| 10:24 | 11/28 | 116.0787 | 17.56996 | 108.46   |

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| 11:24 | 11/28 | 82.53136 | 99.76005 | 81.87376 |
| 12:24 | 11/28 | 95.53933 | 96.87523 | 95.53933 |
| 13:24 | 11/28 | 106.8517 | 83.92931 | 102.1807 |
| 14:24 | 11/28 | 109.2748 | 27.48268 | 98.44294 |
| 15:24 | 11/28 | 93.40607 | 41.31355 | 88.55602 |
| 16:24 | 11/28 | 81.87376 | 70.84579 | 82.53136 |
| 17:24 | 11/28 | 79.26248 | 77.4371  | 81.21815 |
| 18:24 | 11/28 | 79.26248 | 79.33809 | 81.21815 |
| 19:24 | 11/28 | 79.26248 | 80.3754  | 81.21815 |
| 20:24 | 11/28 | 79.26248 | 80.3754  | 80.56445 |
| 21:24 | 11/28 | 79.91257 | 79.33809 | 81.21815 |
| 22:24 | 11/28 | 79.91257 | 79.33809 | 81.21815 |
| 23:24 | 11/28 | 79.26248 | 78.36076 | 81.21815 |
| 00:24 | 11/29 | 78.614   | 79.33809 | 80.56445 |
| 01:24 | 11/29 | 78.614   | 79.33809 | 80.56445 |
| 02:24 | 11/29 | 77.32169 | 80.3754  | 79.26248 |
| 03:24 | 11/29 | 74.75327 | 90.18186 | 76.6777  |
| 04:24 | 11/29 | 74.11402 | 96.87523 | 76.03503 |
| 05:24 | 11/29 | 77.32169 | 90.18186 | 79.26248 |
| 06:24 | 11/29 | 89.23902 | 56.33583 | 89.92513 |
| 07:24 | 11/29 | 100.6701 | 36.53579 | 99.1804  |
| 08:24 | 11/29 | 110.9267 | 23.50096 | 106.8517 |
| 09:24 | 11/29 | 83.85301 | 60.73526 | 83.1911  |
| 10:24 | 11/29 | 84.5172  | 71.46124 | 83.85301 |
| 11:24 | 11/29 | 107.6524 | 24.21086 | 99.92271 |
| 12:24 | 11/29 | 113.4638 | 19.46384 | 103.7135 |
| 13:24 | 11/29 | 110.9267 | 21.01194 | 100.6701 |
| 14:24 | 11/29 | 103.7135 | 25.19607 | 95.53933 |
| 15:24 | 11/29 | 94.11318 | 38.3742  | 89.23902 |
| 16:24 | 11/29 | 83.1911  | 67.08004 | 42.35537 |